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|  | FDOT Traffic Engineering Research Laboratory (TERL) 170, 552A and 662 Controller Cabinets Compliance Matrix | By signing this form, the applicant declares that he/she has read and understands the provisions of Sections 676 and 995 of the FDOT *Standard Specifications for Road and Bridge Construction* and all implemented modifications. The requirements listed on this matrix are derived from Section 676 and 995, 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: |       |

| **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 cabinets. |
| 1 | 995-1.1 | 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 |
| 2 | 995-11.1 | Cabinet is labeled on the inside of the main door using a water-resistant method and is visible after installation. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 3 |  | Painted and unpainted cabinets meet the applicable requirements in Aluminum Cabinets, NEMA-TS-2-2021, 7.7.2. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 4 | 995-11.3 | Type 170 traffic signal controller cabinet provided with all terminals and facilities necessary for traffic signal control. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for all cabinets. |
| 5 |  | Cabinet meets all CALTRANS TEES 2009 requirements. |  | *Provide a first party test report that demonstrates compliance with this requirement. The test report must meet the requirements of FDOT Product Certification Handbook, section 7.2.* | Document Review |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for 336S cabinets. |
| 6 |  | Cabinet incorporates input surge protection mounted on a fold-down termination panel at the input file. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 332 cabinets. |
| 7 |  | Cabinet incorporates a lower input termination panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 332 and 334 cabinets. |
| 8 |  | Cabinet is base mounted. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 332 cabinets. |
| 9 |  | Cabinet has an auxiliary MODEL 420 output file and is configured for 8 vehicle, 4 pedestrian, and 4 overlaps. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for 552A cabinets. |
| 10 |  | Cabinet is a type 332 cabinet assembly that includes a swing-out EIA 19-inch rack cage. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 662 cabinets. |
| 11 |  | Model 662 designation is given to type 552A cabinets assemblies that are 66 inches in height. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for all cabinets. |
| 12 |  | Cabinet complies with figures for traffic control signals and devices available on the Department’s State Traffic Engineering and Operations Office website at the following URL: <https://www.fdot.gov/traffic/Traf-Sys/Product-Specifications.shtm>  |  | *Applicant may provide comments in this field.* | Document Review |
| 13 |  | All terminals and facilities on panels are clearly identified using permanent silk-screened text. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 14 | 995-11.3.1 | For base-mounted cabinets a standard base mounting bolt pattern and a minimum of two aluminum plate welded inside for anchoring to a concrete or composite base. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 15 | 995-11.3.2 | Output file is made of a "hard wired" harness. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 16 | 995-11.3.3 | Cabinet includes an aluminum shelf with storage compartment in the rack below the controller.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 17 |  | The storage compartment has telescoping drawer guides for full extension and the compartment top has a non-slip plastic laminate attached. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 18 |  | An RS-232 connector for communications to the C2S port is provided. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 19 | 995-11.3.4 | Cabinet includes dummy loads consisting of 4.7k resistors rated at five watts minimum for Greens, Peds, and Yellows. Dummy loads are mounted on a terminal block in the rear of the output file or other approved location. One side of each dummy load is wired to AC return in a manner that allows a technician to easily attach the load to outputs from selected load switches. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 20 |  | Dummy loads are mounted on a terminal block in the rear of the output file or other approved location. One side of each dummy load is wired to AC return in a manner that allows a technician to easily attach the load to outputs from selected load switches. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 21 | 995-11.3.5 | Cabinet includes one or more light fixtures that illuminate the entire interior of the cabinet.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 22 |  | All lighting fixtures automatically turn on when the cabinet doors are opened and off when the doors are closed. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 23 | 995-11.3.6 | Cabinet provided with devices to protect equipment from surges.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 24 |  | Surge protector termination panels are attached to the cabinet rack assembly and allow sufficient space for connections, access, and surge protector replacement. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 25 |  | AC isolation terminals are on the same side of the cabinet as the AC service inputs.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 26 |  | DC terminals and loop detector terminals are installed on the opposite side of the cabinet from the AC power lines. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for 332A cabinets. |
| 27 |  | Surge protection is mounted on the lower input termination panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 336S cabinets. |
| 28 |  | Surge protection is mounted on a custom fold down termination panel at the input file. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for all cabinets. |
| 29 |  | The amperage capacity of the internal wiring and printed circuit board traces is not less than the protecting threshold of circuit breakers and surge protectors provided. |  | *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.* |  |
| 30 | 995-11-3.6.1 | The power distribution assembly (PDA) surge protective device (SPD) is a two stage series/parallel device that meets or exceeds the following:1) Maximum AC line voltage is 140 VAC2) 20 pulses of peak current, each of which will rise in 8 microseconds and fall in 20 microseconds to one-half the peak: 20kA.3) The protector includes the following terminals:a) Main line (AC Line first stage terminal)b) Main Neutral (AC Neutral input terminals)c) Equipment Line Out (AC Line second stage output terminal, 10A)d) Equipment Neutral Out (Neutral terminal to protected equipment)e) Ground (Earth connection)4) The main AC line in and the equipment line outer terminals are separated by a 200 microhenry (minimum) inductor rated to handle 10A AC service5) The first stage clamp is between Main Line and ground terminals6) The second stage clamp is between Equipment Line Out and Equipment Neutral7) The protector for the first and second stage clamp have a metal oxide varistor (MOV) or similar solid state device, rated 20 kA. |  | *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.* |  |
| 31 |  | The main neutral and equipment neutral output are connected together internally and have an MOV (or similar solid-state device, or gas discharge tubes) rated at 20 kA between main neutral and ground terminals. |  | *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.* |  |
| 32 |  | The PDA SPD has a peak clamp voltage of 250V at 20 kA (voltage measured between equipment line out and equipment neutral out terminals, current applied between main line and ground terminals with ground and main neutral terminals externally tied together). |  | *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.* |  |
| 33 |  | The PDA SPD has a maximum let through voltage not exceeding 500 Vpk using an 8 by 20 µs/1.2 by 50 µs; 6 kV, 3 kA surge.  |  | *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.* |  |
| 34 |  | The SPD is either be epoxy-encapsulated in a flame-retardant material or utilizes thermally protected varistors and is designed for continuous service current of 10A at 120 VAC RMS. |  | *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.* |  |
| 35 |  | Power to the Type 170E controller and to the 24V power supply is provided from the equipment line out terminal of the PDA SPD. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for loop detector input channel SPDs. |
| 36 | 995-11.3.6.2 | Each inductive loop detector input channel is protected with an external SPD. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 37 |  | SPD is a three-terminal device, two of which are connected across the signal inputs of the detector. The third terminal is connected to chassis ground to protect against common mode damage. |  | *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.* |  |
| 38 |  | SPD instantly clamps differential mode surges (induced voltage across the loop detector input terminals) via a semiconductor array.  |  | *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.* |  |
| 39 |  | The array is designed to appear as a very low capacitance to the detector. |  | *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.* |  |
| 40 |  | SPD clamps common mode surges (induced voltage between the loop leads and ground) via solid state clamping devices. |  | *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.* |  |
| 41 |  | SPD Peak Surge Current is Differential Mode: 400A (8 by 20 µs); Common Mode: 1000A (8 by 20 µs). |  | *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.* |  |
| 42 |  | SPD can survive an estimated 500 occurrences at 200A. |  | *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.* |  |
| 43 |  | SPD has a response time of 40 ns, and its input capacitance is 35 pF typical. |  | *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.* |  |
| 44 |  | SPD clamp voltage is 30V max @ 400A (differential mode) and 30V max at 1000A (common mode). |  | *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.* |  |
| The following compliance matrix criteria are for all cabinets. |
| 45 | 995-11.3.6.3 | The outputs of each load switch in the output file includes a MOV connected from the AC positive field terminal to the chassis ground.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection  |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 46 |  | The MOV is rated 150 VAC and is a V150LA20A (or approved equal). |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection  |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for communication input SPDs. |
| 47 | 995-11.3.6.4 | Each low voltage communication input is protected as it enters the cabinet with a hybrid two-stage SPD. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 48 |  | SPD is a dual pair (four-wire) module with a double-sided, gold-plated printed circuit board connector. |  | *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.* |  |
| 49 |  | SPD is installed in a ten-circuit card edge terminal block (PCB1B10A). |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 50 |  | SPD is utilized as two independent signal pairs.  |  | *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.* |  |
| 51 |  | The data circuits pass through the SPD in a serial fashion. |  | *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.* |  |
| 52 |  | SPD peak surge current is 10kA (8 by 20 µs) and survival occurrences at 2000A are greater than 100. |  | *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.* |  |
| 53 |  | SPD has a response time less than 1 ns and a clamp voltage of 30V maximum. |  | *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.* |  |
| 54 |  | SPD series resistance is greater than 15 ohms per line. |  | *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.* |  |
| 55 |  | SPD primary protector is 3 element gas tube and the secondary protector is a solid state clamp (1.5 kW 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.* |  |
| 56 |  | The line side of the SPD is connected to the communication field wires, the load side is connected to the communication connector of the controller, and the ground terminal is connected to chassis ground. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for all cabinets. |
| 57 | 995-11.3.6.5 | Each DC input is protected by an SPD. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for DC input SPDs. |
| 58 |  | SPD is a 5 terminal device.  |  | *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.* |  |
| 59 |  | Two terminals are connected to the line side of the low voltage pair, two terminals are connected to the input file side, and the fifth terminal is connected to chassis ground. |  | *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.* |  |
| 60 |  | SPD peak surge current is 2 kA (8 by 20 µs) with occurrences at peak current being 100 (typical) |  | *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.* |  |
| 61 |  | SPD has a response time of 5 to 30 ns and can withstand a 10-foot drop on concrete. |  | *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.* |  |
| 62 |  | SPD clamp voltage is 30V and its series resistance is greater than 15 ohms per conductor. |  | *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.* |  |
| The following compliance matrix criteria are for all cabinets. |
| 63 | 995-11.3.6.6 | Each preemption and AC signaling input channel is protected by an external SPD. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 64 |  | SPD is a 3-terminal device with a peak surge current of 2000A (8 by 20 µs).  |  | *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.* |  |
| 65 |  | SPD can survive a minimum of 25 occurrences at peak current. |  | *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.* |  |
| 66 |  | SPD has a response time of less than 200 ns and a peak surge trip point less than 890V nominal. |  | *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.* |  |
| The following compliance matrix criteria are for all cabinets. |
| 67 | 995-11.3.7 | A connector and terminal assembly designated as P20 for monitoring the absence of red, is integrated in the output file. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 68 |  | The connector will terminate, and is compatible with, the cable and connector of a Type 170 conflict monitor unit (CMU), capable of monitoring the absence of red. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 69 |  | The pin assignments of the P20 connector and terminal assembly are included with the cabinet plans. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 70 |  | The P20 connector is physically like the cable and connector of a Type 170 CMU to prevent the absence of red cable connector from being inserted out of alignment. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 71 | 995-11.3.7.1 | All cabinet assemblies include a means of programming unused red channels by installing jumpers from red monitor inputs to 115 VAC. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 72 |  | The connecting terminals for the jumpers are accessible and located in the same terminal block for all 16 channels to assure full compatibility of all cabinet assemblies with "210 Plus" conflict monitor units. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 73 | 995-11.3.8 | Cabinet includes police doors and panels.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 74 |  | The police panel includes text informing officers that yellow and all-red clearance intervals are timed internally. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 75 |  | Police switch panels include a manual 1/4-inch diameter three circuit phone plug with the tip and ring (middle) circuits of the jack connected to the logic ground and the interval advance inputs of controller unit. |  | *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.* |  |
| 76 |  | When the manual hand cord is plugged into the jack and the pushbutton is pressed, logic ground is connected to the interval advance input of the controller unit. |  | *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.* |  |
| 77 |  | The pushbutton cord has a minimum length of 6 feet with a 1/4-inch diameter three circuit plug connected to one end and a hand-held manual pushbutton at the other end. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 78 |  | A complete cycle (push-release) of the manual pushbutton terminates the controller unit interval that is active.  |  | *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.* |  |
| 79 |  | Cycling the push-button during the vehicular yellow or all red clearance intervals does not terminate the timing of those intervals. |  | *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.* |  |
| 80 | 995-11.3.9 | Cabinet includes a technician service panel which is mounted on the back side of the police panel (inside the main cabinet front door). |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 81 |  | Service panel includes two clearly labeled switches with the following functions:(a) UCF – This toggle switch places the intersection into Flashing Operation. After meeting requirements for Flashing Operations, all power is removed immediately from signal load switches.(b) Signal On/Off – This toggle switch disconnects all power to the signal lights through the use of a 60A contact switch placed in series with the load switch packs. |  | *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.* |  |
| 82 |  | Labels are silk screened directly on the panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for 552A and 662 cabinets. |
| 83 | 995-11.3.10 | Cabinet includes a pullout and rotatable rack assembly as well as an interface panel mounted on the top of the rack assembly and attached to the top shelf. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 84 |  | The rack assembly is constructed to house components designed to be installed in a standard EIA 19-inch rack and houses the Controller, Input File, Output File No. 1, PDA No. 2, and a storage compartment. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 85 |  | Rack and slide/hinged mounting brackets are constructed so that the rack assembly (fully loaded) can be pulled out with one hand with complete ease of operation including rotation of the assembly. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 86 |  | The rack assembly has a spring-loaded latch mechanism to secure the rack assembly inside the cabinet while in the "rest" position. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 87 |  | When pulled out of the cabinet at any point from its resting position (inside cabinet) to its full extension and rotation, the fully loaded rack assembly will not cause any member of the assembly to bend, warp or bind. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 88 |  | The rack is made of one-inch square aluminum tubing with welded joints and extends and retracts smoothly without noticeable friction or stress on roller guides, extension brackets, or other mechanical components. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 89 |  | Maximum deflection of the entire rack assembly (with all equipment installed) does not exceed 1/8 inch. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 90 |  | The rack assembly has 12 technician test switches (eight vehicle and four pedestrian) mounted to the interface frame assembly. Technician test switches are of the momentary type. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 91 |  | The front of the rack assembly is tapped with 10-30 threads with EIA universal spacing for 19-inch electrical equipment racks. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 92 |  | The rack assembly is attached to the left cabinet wall through combination slide/hinged mounting brackets. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 93 |  | The slide/hinged mounting brackets are fabricated from aluminum and/or stainless steel. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 94 |  | Mounting bracket guides utilize 7/8-inch stainless steel ball bearing rollers and allow extension and retraction of a loaded rack with minimal effort. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 95 |  | The rack assembly is capable of rotating 210 degrees from its rest position after full extension from the cabinet. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 96 |  | The rack assembly has a minimum 7/16-inch diameter aluminum rack stop rod attached to the inside left cabinet wall from the left side of the rack assembly to lock the rack into final position. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 97 |  | All cabinet harnesses are long enough to maintain cabinet connections and functionality when the rack assembly is fully extended and rotated to its maximum limit.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 98 |  | Harnesses do not bind or crimp when the rack is fully retracted, extended, or in motion. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 99 | 995-11.3.11 | Cabinet includes a field service panel, auxiliary field service panel, and interface panel, all constructed of aluminum with a 1/8-inch minimum thickness.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 100 |  | All components are accessible from the front of the panels. No components are mounted, and wires are not attached behind panels. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 101 | 995-11.3.11.1 | Field service panel consists of terminal strips, circuit breakers, transient protection devices, load resistors, capacitors, cable tie mounts and associated wiring for making all field wiring connections. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 102 |  | Field service panel is mounted in the cabinet on the lower right exterior cabinet wall. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 103 |  | Field service panel provides the necessary interconnecting junction points between the rack assembly and cabinet for the field service wires.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 104 |  | The panel is grouped for internal connections (jumpers) between terminals boards, wiring from the panel to the rack assembly, and wiring from the panel to the cabinet. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 105 |  | Field service panel wiring harness has flexible wire covered by a flexible non-metallic conduit from the field service panel to the PDA, output file, and interface panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 106 |  | Harness has a metal clamp with a rubber grommet center attached to the field service panel to secure the harness to the panel for proper orientation of the harness with the rack assembly. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 107 |  | Terminal strips for the panel are listed as:a) TBS1 – Terminal Block, Deadfront type, 3 position, No. 4 to No. 14 AWG wire range, 70A, 600V.b) TBS2 – Terminal Block, Barrier, 16 position, .375 Density, 5-40 x 3/16 BH Screw, Open Bottom, Double Row, No. 16 AWG (max), 15A, 250V.c) TBS3 – Terminal Block, Barrier, 20 position, .375 Density, 5-40 x 3/16 BH Screw, Open Bottom, Double Row, No 16 AWG (max), 15A, 250V.d) TBS4 &TBS5 – Terminal Block, Barrier, 12 position, .438 Density, 6-32 x ¼ BH Screw, Open Bottom, Double Row, No. 14 AWG (max), 20A, 250V. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 108 |  | Panel has a main cabinet circuit breaker rated at 30A and a cabinet accessory circuit breaker rated at 15A for cabinet fans and light.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 109 |  | Circuit breakers are mounted near the back cabinet door on the panel. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 110 |  | Panel includes 2k, 10--watt load resistors for all Walk, Green, Green Arrow, Yellow and Yellow Arrow Switch Pack outputs to prevent the conflict-voltage monitor from going into "Flash" due to a failed signal lamp. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 111 |  | MOVs are physically tied to one side of each terminal on TBS4 and TBS5 and are physically secured to the field service panel with a 6-32 screw. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 112 | 995-11.3.11.2 | Cabinet includes an auxiliary field service panel mounted on the lower left interior cabinet wall which consists of a minimum of four terminal strips, 18 detector surge protectors and one pedestrian button isolation board assembly. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 113 |  | The 18 surge protectors are three-terminal devices, two of which are connected across the signal inputs of the detector for differential mode protection and the third terminal is grounded to protect against common mode damage. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 114 |  | Pedestrian button isolation board is mounted on the auxiliary field service panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 115 |  | Terminal strips for the panel are Terminal Block, Barrier, 12 position, .438 Density, 6-32 x 1/4 BH Screw, Open Bottom, Double Row, No. 14 AWG (max), 20A, 250V. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 116 |  | A four-button pedestrian isolation board is installed on the auxiliary field service panel to provide for the connection of the pedestrian buttons on phases 2, 4, 6 and 8.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 117 |  | The board provides electrical isolation of the field wiring to the internal cabinet wiring. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 118 |  | The inputs to this isolation board are wired to terminal block TBA5 for connection to field wiring.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 119 |  | The outputs of this board are carried through the harness to the input file to the proper wires that go to the interface extension panel of the controller. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 120 |  | The pedestrian button isolation board includes a PC board, with the minimum dimensions of 2 inches high by 8 inches wide and is 1/8 to 3/16 inches thick, mounted on an aluminum panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 121 | 995-11.3.11.3 | Interface panel consists of eight terminal strips, one telephone line suppressor and mounting fixture, two 24 VDC relays and mounting fixtures, and all associated wiring for connecting the required interface equipment modules. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 122 |  | The front of the interface panel is covered by a 1/4 inch clear plexiglass sheet, supported off the panel by four 1-1/2 inch standoffs.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 123 |  | Interface panel and cover is secured using wing nuts that are removable without the use of tools.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 124 |  | The plexiglass cover has 1/2-inch slots, centered over each of the terminal strips and is interchangeable. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 125 |  | Interface panel wiring provides the necessary interconnecting junction points between interface equipment cable harnesses and controller cabinet input and output signal.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 126 |  | Interface panel wiring provides the functional wiring information for connecting the interface equipment in the cabinet. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 127 |  | Interface panel wiring is grouped for internal connections (jumpers between terminal boards) as well as wiring from the controller and related cabinet functions to the terminal boards on the interface panel. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 128 |  | Ground wires are a minimum No. 14 AWG wire. The internal harnesses are located between TB1, TB2 and TB3 and the external and internal wiring are located outside of TB1 and TB4, between TB2 and TB3. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 129 |  | Terminal strips are Barrier type, .375 Density, 5-40 x 3/16 BH Screw, Open Bottom, Double Row, No. 16 AWG (max), 15A, 250V.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 130 |  | Terminals use nickel/cadmium plated brass screws.  |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 131 |  | All terminals and facilities on panels are clearly identified using permanent silk-screened. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 132 |  | K1P and K2F relays are 15A miniature relays with polycarbonate cover, 2 form C (CO) contact arrangement, DC coil input, socket mount, .187 inch quick connect/solder terminals, AgCdO (15A) contacts, and 24VAC coil voltage with matching socket and hold down spring.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 133 |  | All screws on the relay socket are brass with nickel/cadmium plating. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| The following compliance matrix criteria are for all cabinets. |
| 134 | 995-11.3.12 | Cabinet has an aluminum storage compartment, with telescoping drawer guides for full extension, mounted in the rack assembly.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 135 |  | Compartment has a continuous front lip for opening the compartment and the top of the compartment is non-slip plastic laminate. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 136 |  | A communication port for connecting to the controller’s communications port via the cabinet harness is installed on the right-hand side of the drawer at the front. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 137 | 995-11.3.13 | The cabinet includes four cabinet rails, approximately 1-1/2 inch to 2 inches wide by 1/2 inches deep, for mounting wiring panels and various brackets.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 138 |  | Rails are keyhole design with slots 2 inches on center with a top opening diameter of 5/8 inches to allow the insertion of a 5/8 inch by 1 inch carriage bolt. Rails are not unistruts. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 139 | 995-11.3.14 | No printed circuit boards, except for the red monitor program board, are used. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 140 | 995-11.3.14.1 | All wires are cut to the proper length and neatly laced into cables with nylon lacing. No wire is doubled back to take up slack.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 141 |  | Cables in the cabinet do not interfere with the routing and connection of field wiring. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 142 |  | Cables are secured with nylon cable clamps, unless specified otherwise.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 143 |  | The position of cables between the components is such that when the door is closed, it does not press against the cables or force the cables against the various components inside the controller cabinet. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 144 |  | Ground busbar is fabricated of a copper or aluminum alloy material compatible with copper wire and has at least two positions where a No. 2 AWG stranded copper wire can be attached. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 145 |  | A 6-inch ground busbar, with screw terminals on the bottom flange, is mounted on each side of the cabinet for connection of AC neutral wires and chassis ground. |  | *Applicant may provide comments in this field.* |  Physical Inspection |
| 146 |  | A flexible ground strap is attached between the left side ground buss bar and the left side bottom rear of the rack assembly. |  | *Applicant may provide comments in this field.* |  Physical Inspection |
| 147 |  | Wiring harnesses are covered by a flexible non-metallic conduit.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection  |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 148 |  | Panel wire size is a minimum of No. 18 AWG unless otherwise specified. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection  |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 149 | 995-11.3.14.2 | Terminal connections are soldered or constructed using a calibrated ratchet type crimping tool. Wiring is traceable and is not tangled. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 150 | 995-11.4 | Non-emergency flashing operation is performed by the UCF format. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 151 |  | UCF format is initiated by: a) Flash Switch located on the cabinet service panel, b) Time Base Coordination Flash, and c) Time Switch. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 152 |  | When flashing operation is initiated, the controller assembly transfers from normal operation to flashing operation only at the end of the common major street red interval, the common minor street yellow interval, or all red interval. |  | *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.* |  |
| 153 |  | UCF is an internal function of the controller unit and is not inhibited by the hold command. External logic cannot provide this function. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 154 |  | When emergency flashing operation is required, the controller assembly immediately places the intersection on flash. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 155 |  | Emergency flash is initiated immediately by the Auto/Flash Switch (a switch located on the cabinet police panel) or if the Conflict-Voltage Monitor senses a conflicting indication or system error. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 156 |  | Unless the conflict-voltage monitor initiated the flashing operation, the controller unit reverts to its start-up sequence when the controller assembly is transferred from flashing operation to normal operation. |  | *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.* |  |
| 157 |  | If the conflict-voltage monitor initiated the flashing operation, the controller assembly remains in flashing operation until the monitor unit is reset and automatic operation is implemented through the normal start-up sequence. |  | *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.* |  |
| 158 | 995-11.6 | Traffic signal controller cabinets include a generator and auxiliary power connection.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 159 |  | Cabinets with generator and auxiliary power connection include provisions for the connection of an external power source, such as a portable generator, through a weatherproof, secure interface. This feature allows authorized personnel to access, connect, and secure an external power source to the cabinet in order to restore power within five minutes of arrival time at the cabinet.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 160 |  | A 10 gauge, 600V UL rated cable, fabricated with an L5-30R on one end and standard 120 duplex plug on the other, a minimum of 12 feet in length or as shown in Plans, must be supplied with cabinet assemblies for field connection between generator and cabinet.  |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 161 |  | The generator access door and cable entrance include means to prevent access to insects when cable is not present. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 162 | 995-11.6.1 | The cabinet is provided with an automatic transfer switch as shown in the plans which meets UL 1008.  |  | *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.* |  |
| 163 |  | The transfer switch is rated equal to or higher than the design load of the cabinet’s main breaker and the generator input twist-lock connector rating. |  | *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.* |  |
| 164 |  | The transfer switch provides a means of switching between normal utility power and auxiliary backup generator power. |  | *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.* |  |
| 165 |  | Switching time does not exceed 250 milliseconds.  |  | *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.* |  |
| 166 |  | The transfer switch does not allow simultaneous active power from more than one source. |  | *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.* |  |
| 167 |  | The transfer switch does not allow generator backflow into normal utility AC circuits. |  | *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.* |  |
| 168 | 995-11.6.2 | A generator connection panel is included and consists of, at a minimum, the automatic transfer switch with a three-prong, 30-amp L5-30P twist-lock connector with recessed male contacts for generator hookup. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 169 |  | The access panel is located as close as possible to the main AC circuit breaker with the bottom of the access panel no less than 24 inches above the bottom of the cabinet. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 170 |  | The generator access panel is not placed on the main cabinet door or back door. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 171 |  | The transfer switch and twist lock connector are labeled on a panel easily accessible behind a weatherproof lockable exterior access door equipped with a tamper-resistant hinge. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 172 |  | This access door is labeled “Generator Access Door” and is provided with a No. 2 lock. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 173 |  | The access door and generator cable entrance include means to prevent access to insects when cable is not present.  |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 174 |  | The generator hookup compartment is recessed no more than six inches into the cabinet but is deep enough to allow closing and locking of the access door when the generator cable is connected. Access is not blocked to any other equipment in the cabinet. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.*  | Document Review and Physical Inspection |
|  |  |  |  | *Indicate location of requested information in submittal.* |  |
| 175 | 676-4 | Cabinets, enclosures, and risers have a manufacturer’s warranty covering defects for a minimum of 2 years from the date of final acceptance. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| 176 |  | The warranty includes providing replacements, within 10 calendar days of notification, for defective parts and equipment during the warranty period at no cost to the Department or maintaining agency. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |

**Document History for:**

**170, 552A and 662 Controller Cabinets Compliance Matrix**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Rev | Description | Authored and Checked | Reviewed | Approved | Approval Date | Rev More Stringent? |
| 1.0 | Initial SSRBC version | D. Bremer | C. MorseM. DeWittJ. Morgan | J. Morgan | 09/09/2015 | No |
| 2.0 | Updated CM to reflect spec changes for FA 8-1-17. Also updated CM to reflect spec changes for FA 9-10-14. | R. Brooks | M. DeWittM. TomataniJ. Morgan | J. Morgan | 11/15/2017 | No |
| 3.0 | Updated CM to reflect spec changes for FA 8-6-18. | J. Morgan | M. DeWitt | M. DeWitt | 11/25/2019 | Yes |
| 4.0 | Updated CM to reflect spec changes for FA 7-2-20. | W. Geitz | C. RaimerM. DeWitt | D. Vollmer | 09/30/2020 | No |
| 5.0 | Added warranty information. Corrected matrix name and added missing identifier.  | A. Burleson | W. Geitz | M. DeWitt | 02/01/2022 | No |
| 6.0 | Moved from 676 to 995-11 (FA 10-24-22). | W. Geitz | D. ChristianM. DeWitt | D. Vollmer | 06/12/2023 | No |
| 7.0 | Updated to latest FA dates of 9-14-23 and 10-6-23 for specs 676 and 995 respectively. | W. Geitz | D. Christian  | D. Vollmer | 11/28/2023 | No |