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|  | FDOT Traffic Engineering Research Laboratory (TERL)  Portable Traffic Control Signal Compliance Matrix | By signing this form, the applicant declares that he/she has read and understands the provisions of Sections 603 and 990 of the FDOT *Standard Specifications for Road and Bridge Construction* and all implemented modifications. The requirements listed on this matrix are derived from Sections 603 and 990, 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: |  |

| **ID No** | **Section** | **Requirement** | **Item Comply? (Yes/No/NA)** | **Comments (Applicant must provide information as indicated)** | **TERL Evaluation Method** |
| --- | --- | --- | --- | --- | --- |
| 1 | 990-7.1 | Unit meets the physical display and operational requirements of conventional traffic signal described in the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways. |  | *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.* |
| 2 |  | Portable Traffic Signal Systems meet the requirements of NEMA TS 5. |  | *Applicant may provide comments in this field.* | Document Review, Physical Inspection, and Functional Inspection |
| The following compliance matrix criteria (referencing NEMA TS-5) are from NEMA TS-5 and are for all portable traffic control signal systems. | | | | | |
| 3 | NEMA TS-5 Section 4 | The PTSS meets the requirements of NEMA TS-5 Section 4 Operating Performance Conditions. |  | *Provide the following:*   * *A third party test report that demonstrates compliance with this requirement.* * *A completed Testing Laboratory and Report Checklist.* * *A completed NEMA TS5 13.1.3-13.1.6 Checklist.* | Document Review |
| *Indicate location of requested information in submittal.* |
| 4 | NEMA TS-5 Section 5.1 | The controller meets the requirements of NEMA TS-5 Section 5.1, DESIGN. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 5 | NEMA TS-5 Section 5.2 | The controller meets the requirements of NEMA TS-5 Section 5.2, PERFORMANCE STANDARDS. |  | *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.* |
| 6 | NEMA TS-5 Section 5.4 | The controller meets the requirements of NEMA TS-5 Section 5.4, PRE-TIMED CONTROL. |  | *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.* |
| 7 | NEMA TS-5 Section 5.5 | The controller meets the requirements of NEMA TS-5 Section 5.5, MANUAL CONTROL. |  | *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.* |
| 8 | NEMA TS-5 Section 5.6 | The controller meets the requirements of NEMA TS-5 Section 5.6, INITIALIZATION. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 9 | NEMA TS-5 Section 5.7 | The controller meets the requirements of NEMA TS-5 Section 5.7, ACTUATED MOVEMENTS. |  | *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.* |
| 10 | NEMA TS-5 Section 5.8 | The controller meets the requirements of NEMA TS-5 Section 5.8, ACTUATED CONTROL. |  | *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.* |
| 11 | NEMA TS-5 Section 5.9 | The controller meets the requirements of NEMA TS-5 Section 5.9, PROGRAMMING. |  | *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.* |
| 12 | NEMA TS-5 Section 5.10 | The controller meets the requirements of NEMA TS-5 Section 5.10, EVENT REPORT / DATA LOG. |  | *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.* |
| 13 | NEMA TS-5 Section 5.11 | The controller meets the requirements of NEMA TS-5 Section 5.11, UNIT TO EXTERNAL IT DEVICE. |  | *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.* |
| The following compliance matrix criteria (referencing NEMA TS-5) are from NEMA TS-5 and are for all portable traffic control signal systems with actuation and/or preemption. | | | | | |
| 14 | NEMA TS-5 Section 7.2 | The controller meets the requirements of NEMA TS-5 Section 7.2, MOTION SENSORS. |  | *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.* |
| 15 | NEMA TS-5 Section 7.3 | The controller meets the requirements of NEMA TS-5 Section 7.3 NON-INVASIVE TRUE-PRESENCE DETECTORS. |  | *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.* |
| 16 | NEMA TS-5 Section 7.4 | The controller meets the requirements of NEMA TS-5 Section 7.4, PREEMPTION. |  | *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.* |
| 17 | NEMA TS-5 Section 7.5 | The controller meets the requirements of NEMA TS-5 Section 7.5 WITRELESS MANUAL CONTROL. |  | *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.* |
| The following compliance matrix criteria (referencing NEMA TS-5) are from NEMA TS-5 and are for all portable traffic control signal systems. | | | | | |
| 18 | NEMA TS-5 Section 11.1 | The PTSS meets the requirements of NEMA TS-5 Section 11.1, PHYSICAL. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review and Physical nspection |
| *Indicate location of requested information in submittal.* |
| 19 | NEMA TS-5 Section 11.2 | The PTSS meets the requirements of NEMA TS-5 Section 11.2, 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.* |
| 20 | NEMA TS-5 Section 12 | The PTSS meets the requirements of NEMA TS-5 Section 12, PTS TRAILER/PEDASTAL SUBSYSTEM REQUIREMENTS. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement.* | Document Review, Physical Inspection, and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| The following compliance matrix criteria are for all portable traffic control signal systems. | | | | | |
| 21 | 990-7.1 | Signal head has three 12 inch vehicular signal indications (Red, Yellow and Green). |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review and  Physical Inspection |
| 22 |  | Assembly is configured with two signal heads for each direction of traffic. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review and  Physical Inspection |
| 23 |  | The traffic signal head is approved by the Department. |  | *Provide the applicable compliance matrix from Specification 650 along with all supporting documentation that demonstrates this product meets this requirement. Alternately, provide the Approved Product List (APL) number if the traffic signal head is APL listed.* | Compliance Matrix Review or  Document Review |
| *Indicate location of requested information in submittal or indicate Approved Product List number(s) in this field.* |
| 24 |  | Signal module is Department approved and installed in each section in accordance with the manufacturer’s permanent directional marking(s), that is, an “Up Arrow”, the word “UP” or “TOP,” for correct indexing and orientation within a signal housing. |  | *Provide the applicable compliance matrix from Specification 650 along with all supporting documentation that demonstrates this product meets this requirement. Alternately, provide the Approved Product List (APL) number if the traffic signal head is APL listed.* | Compliance Matrix Review or Document Review and Physical Inspection |
| *Indicate location of requested information in submittal or indicate Approved Product List number(s) in this field.* |
| 25 |  | The masts supporting the traffic signal heads are manufactured with the lowest point of the vehicular signal head as follows: 1) Eight feet above finished grade at the point of their installation for “pedestal” type application or; 2) 17 to 19 feet above pavement grade at the center of roadway for “overhead” type application. |  | *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 |  | The yellow clearance interval is programmed three seconds or more; the yellow clearance interval cannot be manually controlled under any condition; it is timed internally by the controller as per Department specifications. |  | *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.* |
| 27 |  | The green interval displays a minimum of five seconds before being advanced to the yellow clearance 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.* |
| 28 |  | The controller allows for a variable all red clearance interval from 0 to 999 seconds. |  | *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.* |
| 29 |  | Portable traffic control signals are either manually controlled or traffic actuated; indicator lights for monitoring the signal operation of each approach are supplied and visible from within the work zone area. |  | *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.* |
| 30 |  | When the portable traffic control signals are radio actuated the following apply: 1) the transmitter is FCC Type accepted and does not exceed 1 watt output per FCC, Part 90.17; the manufacturer complies with all “Specific limitations” noted in FCC Part 90.17; and 2) the controller forces the traffic signal to display red toward the traffic approach in case of radio failure or interference. |  | *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 trailer and supports are painted construction/maintenance orange enamel in accordance with the MUTCD color. |  | *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.* |
| 32 |  | The FDOT certification number is engraved or labeled permanently on equipment. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 33 |  | The device has an external, visible, water resistant label with the following information: “Certification of this device by the Florida Department of Transportation allows for its use in Construction Zones Only.” |  | *Applicant may provide comments in this field.* | Physical Inspection |
| 34 | 603-2.4 | All assembly hardware less than 5/8 inch in diameter is type 304 or 316 passivated stainless steel. Stainless steel bolts, screws and studs meet ASTM F593 and nuts meet ASTM F594. |  | *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 |  | All assembly hardware greater than or equal to 5/8 inch in diameter is galvanized. Bolts, studs, and threaded rod meet ASTM A307 and structural bolts meet ASTM F3125, Grade A325. |  | *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.* |
| 36 | 603-6 | An operator’s manual is furnished with each unit. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |

**Document History for:**

**Portable Traffic Control Signal Compliance Matrix**

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| Rev | Description | Authored and Checked | Reviewed | Approved | Approval Date | Rev More Stringent? |
| 1.0 | Conversion from Excel to Word and adding evaluation criteria. | D. Bremer | C. Morse  D. Vollmer | J. Morgan | 01/28/2013 | No |
| 2.0 | Modified disclaimer to indicate compliance matrix is governing document and referencing PCH section 7.2 in place of A601-3. | A. Burleson | J. Morgan | J. Morgan | 05/09/2013 | No |
| 3.0 | Replaced FDOT logo with latest approved one and added CM ID # to header. Revised document approver title. | A. Burleson  K. Moser | J. Morgan | J. Morgan | 11/03/2014 | No |
| 4.0 | Spec is currently out for FHWA approval, but there are no proposed changes in temporary traffic control signal area. | D. Bremer | J. Morgan | J. Morgan | 09/09/2015 | No |
| 5.0 | Updated to reflect latest FA approval date of 8-11-15. | A. Burleson | J. Morgan | J. Morgan | 02/05/2016 | No |
| 6.0 | Included visor/egg create specification to reflect changes to FA date of 8/20/18. | R. Brooks | J. Morgan | J. Morgan | 12/13/2018 | No |
| 7.0 | Updated to reflect latest FA approval date of 10-31-19. | W. Geitz | M. DeWitt  J. Morgan | D. Vollmer | 04/03/2020 | No |
| 8.0 | Minor revision to reflect new FA Date of 7-9-20. | W.Geitz | C. Raimer  M. DeWitt | D. Vollmer | 12/30/2020 | No |
| 9.0 | Minor revision to reflect FA 2-22-21 with no changes to this CM. | W.Geitz | C. Raimer  M. DeWitt | D. Vollmer | 09/21/2021 | No |
| 10.0 | Updated to reflect latest FA approval date of 8-16-24 for spec 990. CM IDs 4-20 contain more stringent requirements. | W. Geitz | D. Bremer | M. DeWitt | 07/21/2025 | Yes |