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|  | FDOT Traffic Engineering Research Laboratory (TERL)  Inductive Loop Detection System Compliance Matrix | By signing this form, the applicant declares that he/she has read and understands the provisions of Sections 660 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 Sections 660 and 995, 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** |
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| The following compliance matrix criteria are for all inductive loop detection systems. | | | | | |
| 1 | 995-1.1 | Equipment is permanently marked with manufacturer name or trademark, part number, and date of manufacture or serial number. |  | *Applicant may provide comment in this field.* | Physical Inspection |
| 2 | 995-2.1 | All parts are made of corrosion-resistant materials, such as UV stabilized or UV resistant 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 and Physical Inspection |
| *Indicate location of requested information in submittal.* |
| 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 and Physical Inspection |
| *Indicate location of requested information in submittal.* |
| 4 |  | If the assembly includes a cabinet, the cabinet meets the requirements of Section 676. |  | *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.* |
| 5 |  | Detector meets the environmental requirements of NEMA TS-2-2021. |  | *Provide a third party test report that demonstrates the device performs all required functions during and after being subjected to the environmental testing as described in NEMA TS2 section 2.2.7, 2.2.8, and 2.2.9. The test report must be less than 5 years old and meet the requirements of FDOT Product Certification Handbook, section 7.2.* | Document Review |
| *Indicate location of requested information in submittal.* |
| 6 | 995-2.2 | If rack-mount, the inductive loop detector unit meets the requirements of NEMA TS-2 2021 .and CALTRANS TEES 2020.If shelf-mount, detector unit meets the requirements of NEMA TS-1 1989. |  | *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 are for inductive loop detection systems to be used as presence detectors. | | | | | |
| 7 | 995-2.9 | Detector provides a minimum detection accuracy of 98%. |  | *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 |  | Detector meets the requirements for modes of operation in NEMA TS2-2021, 6.5.2.17. |  | *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 are for inductive loop detection systems to be used as traffic data detectors. | | | | | |
| 9 | 995-2-10.1 | Vehicle detection meets the minimum total roadway segment accuracy levels of 95 % for volume, 90% for occupancy, and 90% for speed for all lanes, up to the maximum number of lanes that the device can monitor as specified by the manufacturer. Traffic detection data is calculated in accordance with all criteria as detailed in 995-2.10 and all subsections therein. |  | *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 are for all inductive loop detection systems. | | | | | |
| 10 | 660-5 | The detection system has a manufacturer’s warranty covering defects for a minimum of 1 year from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| 11 |  | 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 the maintaining agency. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |

**Document History for:**

**Inductive Loop Detection System Compliance Matrix**

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| Rev | Description | Authored and Checked | Reviewed | Approved | Approval Date | Rev More Stringent? |
| 1.0 | Conversion to word and update matrix for new 660 detection spec. | D. Bremer | J. Morgan  C. Morse | J. Morgan | 05/09/2013 | Yes |
| 2.0 | Replaced FDOT logo with latest approved one and added CM ID # to header. Revised document approver title. | D. Bremer  K. Moser | J. Morgan | J. Morgan | 10/29/2014 | No |
| 3.0 | Updated to reflect latest FHWA approved specification (FA 6-4-15). No content change. | A. Burleson | J. Morgan | J. Morgan | 10/15/2015 | No |
| 4.0 | Updated to reflect spec changes for FA 8-1-2017 update. | R. Brooks | J. Morgan  M. Tomatani | J. Morgan | 11/17/2017 | No |
| 5.0 | Updated to reflect spec changes for FA 7-9-20 update. | W. Geitz | M. DeWitt  J. Morgan | D. Vollmer | 06/23/2021 | No |
| 6.0 | Updated FA Date 8-20-21 and changed CM name. | W. Geitz | C. Raimer  M. DeWitt | D. Vollmer | 09/20/2021 | No |
| 7.0 | Added warranty information. | A. Burleson | W. Geitz | M. DeWitt | 02/01/2022 | No |
| 8.0 | Updated to reflect spec changes for FA 10-24-22 update | W. Geitz | M. DeWitt  I. Sing | D. Vollmer | 01/24/2023 | No |
| 9.0 | Updated to latest FA date of 10-6-23 for specs 660 and 995. | W. Geitz | L. Audisio | D. Vollmer | 12/7/2023 | No |