**SIGN BEACON**

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Approved/Issued by: Jeff Morgan, Product Certification Manager

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| REV. | DATE | DESCRIPTION | AUTHORED BY | REV MORE STRINGENT? |
| --- | --- | --- | --- | --- |
| 1.0 | 01/24/2013 | Initial compliance matrix after development of A652 | David Bremer | Yes |
| 2.0 | 01/17/2014 | Replaced FDOT logo with latest approved one and added CM ID # to header. | Armelle Burleson | No |
| 3.0 | 02/25/2014 | Updated to reflect consolidation of old A652 content into new sub-article in SSRBC Section 700 (scheduled for 7/14 implementation). Revised document approver title. | Ron MeyerKelli Moser | No |
| 4.0 | 09/8/2015 | Updated to match FA 7-27-15 | Ron Meyer | No |
| 5.0 | 09/27/2018 | Updated to reflect the latest FA approval date of 8-15-18. Updated NEMA requirements. | Rod Brooks  | Yes |
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| --- | --- | --- |
|  | FDOT Traffic Engineering Research Laboratory (TERL) Sign Beacon Compliance Matrix | By signing this form, the applicant declares that he/she has read and understands the provisions of Section 700 of the FDOT *Standard Specifications for Road and Bridge Construction* and all implemented modifications. The requirements listed on this matrix are derived from Section 700, 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)** | **Comments(Applicant must provide information as indicated)** | **TERL Evaluation Method** |
| --- | --- | --- | --- | --- | --- |
| The following compliance matrix criteria are for all flashing beacons |
| 1 | 700-6.2 | Equipment is permanently marked with manufacturer name or trademark, part number, date of manufacture, or serial number. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review and Physical Inspection |
| 2 |  | Flashing beacon assemblies incorporating a circular traffic signal meet the design and functional requirements set forth in MUTCD Chapter 4L. |  | *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.* |
| 3 |  | All circular beacons have a minimum nominal diameter of 12 inches and meet the requirements of Section 650. |  | *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.* |
| 4 |  | Beacon uses a LED light source. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria is for school zone flashing beacons |
| 5 |  | Beacon designed for use with school zone signing includes a means of calendar scheduling to program days and times of 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.* |
| The following compliance matrix criteria is for vehicle activated flashing beacons |
| 6 | 700-6.2.1 | Beacon utilizes a vehicle detection system listed on the APL. |  | *Indicate Approved Product List number(s) in this field.* | Document Review and Functional Inspection |
| The following compliance matrix criteria is for pedestrian activated flashing beacons |
| 7 | 700-6.2.2 | Beacon utilizes a pedestrian detector currently listed on FDOT’s APL. |  | *Indicate Approved Product List number(s) in this field.* | Compliance Matrix Review |
| The following compliance matrix criteria are for all flashing beacons |
| 8 | 700-6.2.3 | Flashing beacon cabinet is currently listed on FDOT’s APL or meets the applicable criteria of Section 676. |  | *Provide product literature, specifications, user manual, or similar information that shows the product meets this requirement. Alternately, provide the APL number if the cabinet is APL listed.* | Document Review and Functional Inspection |
| *Indicate location of requested information in submittal.* |
| 9 |  | All housings other than pole-mounted cabinets are powder coat painted dull black (Federal Standard 595A-37038) with a reflectance value not exceeding 25 percent as measured by American Society for Testing and Material E1347. |  | *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.* |
| 10 |  | Cabinet and housing prevent unauthorized access. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 11 |  | Flashing beacon assembly can be installed on 4.5 inch outer diameter posts. |  | *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 |  | All exposed assembly hardware including nuts, bolts, screws, and locking washers less than 5/8 inch in diameter, is Type 304 or 316 passivated stainless steel and meets the requirements of ASTM F593 and ASTM F594. |  | *Provide statement of conformance from hardware supplier that shows the product meets this requirement.* | Document Review |
| *Indicate location of requested information in submittal.* |
| 13 |  | All assembly hardware greater than or equal to 5/8 inch in diameter is galvanized and meets the requirements of ASTM A307. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| 14 | 700-6.2.4 | Equipment operates on solar power or a nominal voltage of 120 volts alternating current (VAC). |  | *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 is for AC powered flashing beacons |
| 15 |  | If the device requires operating voltages of less than 120 VAC, the appropriate voltage converter is supplied. |  | *Provide a statement of conformance in this field.* | Compliance Matrix Review |
| The following compliance matrix criteria are for solar powered flashing beacons |
| 16 |  | Solar powered beacon system is designed to provide 10 days of continuous operation without sunlight. |  | *Applicant may provide comments in this field.* | Functional Inspection |
| 17 |  | Solar powered system automatically charges batteries and prevents overcharging and over-discharging. |  | *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.* |
| 18 |  | Solar powered system includes a charge indicator and AC/DC battery charger. |  | *Applicant may provide comments in this field.* | Physical Inspection |
| The following compliance matrix criteria are for all flashing beacons |
| 19 | 700-6.2.5 | Electronic assembly operates as specified during and after being subjected to the transients, temperature, voltage, humidity, vibration, and shock tests described in National Electrical Manufacturers Association (NEMA) TS4. |  | *Provide a third party test report that demonstrates compliance with this requirement. The test report must meet the requirements of FDOT Product Certification Handbook (PCH), section 7.2.* | Document Review |
| *Indicate location of requested information in submittal.* |
| 20 |  | All electronic equipment complies with Federal Communications Commission, Title 47 Subpart B Section 15. |  | *Provide a third party test report that demonstrates compliance with this requirement. The test report must meet the requirements of FDOT PCH, section 7.2.* | Document Review |
| *Indicate location of requested information in submittal.* |