

ALABAMA DEPARTMENT OF TRANSPORTATION
PROCEDURE FOR EVALUATION AND MAINTENANCE OF

LIST VI-8

CONNECTED AND AUTOMATED VEHICLE EQUIPMENT

1. **Material:** Connected and Automated Vehicle Equipment
2. **Specification:** Sections 893 and 729 (FUTURE)
3. **Jurisdiction:** Product Evaluation Board;
Lead: Maintenance Bureau;
Others: ITS Evaluation Team (consists, at a minimum, of knowledge experts from Design Bureau – Traffic Design Section, Maintenance Bureau – TSMO and Signal Shop, and Computer Services Bureau).
4. **Job Acceptance Requirements:** No job control samples necessary if the product performs satisfactorily.
5. **Project Manager's Responsibility:**
 - 5.1 Check and assure that the product is on the approved list.
 - 5.2 If no approved list is established, then: (a.) receive the manufacturer's datasheets and listings of proposed equipment and materials, on a project by project basis; and (b.) submit this information to the Traffic Design Engineer in accordance with Department Specifications and Construction Bureau directives/memorandums.
6. **Producer's Initial Requirements:** Companies wishing to have a product evaluated for placement on this list must furnish the Department's Product Evaluation Engineer with the following:
 - 6.1 Name and address of the company producing the product.
 - 6.2 Complete and submit applicable *ALDOT Design & Maintenance Bureaus Intelligent Transportation Systems Testing Manual's* Compliance Matrix Form along with the PEB application. (See *Manual's* "Section 2.2" and "Table 2-2" for effective Compliance Matrix Form number. Include any additional information as indicated within the form.)
 - 6.3 Submit applicable independent laboratory test report and certificate of approval. If requested by the Department, the producer shall also submit the product's Application Review and Product Evaluation certified test reports.
 - 6.4 Upon request, furnish one complete unit of the product to be evaluated, along with Standard Operating Procedures and manuals, to the Maintenance Bureau's Signal Shop Supervisor. (Include any manufacturer configuration, testing, and control software/applications along with applicable upgrades and firmware upgrades.)
 - 6.5 Submittal and testing fees according to the Department's current fee schedule. (For each ITS item to be evaluated/ tested, also see *ALDOT Design & Maintenance Bureaus Intelligent Transportation Systems Testing Manual's* DM-002 "List VI – Testing Fees".)
7. **Producer's Maintenance Requirements:** Companies with products on this list will be expected to comply with the following to remain on the list:
 - 7.1 Produce the same quality and composition of material as the material supplied for the original evaluation.
 - 7.2 Provide only approved products to Department projects.
 - 7.3 Promptly report to the Department any changes in company name, product name, company address, company ownership, or product's certification standing.
 - 7.4 Notify the Department of any changes in production of the product including a change in manufacturing plant location. Any alteration that could change the product physically or functionally will require a reevaluation of the product.
8. **Laboratory Testing:** The following evaluations will be conducted on submitted products:
 - 8.1 Check for compliance with Section 893 of the Department Specifications and applicable standard drawings.
 - 8.2 Check for compliance with NEMA and other industry standards.
 - 8.3 Compliance with applicable testing requirements of the *ALDOT Design & Maintenance Bureaus Intelligent Transportation Systems Testing Manual*.
 - 8.4 Successful field installation of product required.
9. **Field Testing:** The following evaluations will be conducted on approved products:
 - 9.1 Testing shall be performed in accordance with Section 729 of the Department Specifications. The following testing milestones shall be successfully completed: Bench Test, Field Test, and Acceptance Test.
 - 9.2 Check for compliance with applicable testing requirements of the *ALDOT Design & Maintenance Bureaus Intelligent Transportation Systems Testing Manual*.
 - 9.3 Burn-In shall be completed in accordance with Section 729 of the Department Specifications.
 - 9.4 Successful field installation, Acceptance Testing, and Burn-In are required.
10. **Contractor's Requirements:** The Contractor(s) will be responsible for purchasing and using only approved products. Also, see Section 729 of the Department Specifications regarding testing and any additional submittal requirements required of the Contractor.
11. **Removal of Products:** Products may be removed from this list for any of the following:
 - 11.1 Mislabeling products or substitution of products other than those originally submitted and approved.

- 11.2 Failure to comply with any of the Department's requirements for this type of material.
- 11.3 Failure to perform satisfactorily on the job.

- 12. **Removal of Vendors:** Vendors may be removed from this list for any of the following:
 - 12.1 Mislabeling products or substitution of products other than those originally submitted and approved. Vendors may be reinstated on the list at the discretion of the ALDOT should the incident be an inadvertent and isolated error.
 - 12.2 At the request of the manufacturer, or removal from the manufacturer's approved distributor/installer list (if applicable).

- 13. **Correspondence:** All correspondence concerning this list should be directed to the following:
 - 13.1 *All Application Submittals (along with supporting documentation including test reports), Final Acceptance, and Renewal:*
 - Product Evaluation Board
 - Alabama Department of Transportation
 - 3704 Fairground Road
 - Montgomery, AL 36110

 - 13.2 *Sample Product For Review (along with supporting items per 6.4):*
 - Traffic Signal Shop Supervisor
 - Alabama Department of Transportation
 - Maintenance Bureau
 - 521 Traffic Operations Drive
 - Montgomery, AL 36110