



## DEPARTMENT OF TRANSPORTATION

### TRAFFIC ELECTRICAL SYSTEMS PRODUCT QUALIFICATION AND APPROVAL PROGRAM SEPTEMBER 23, 2020

#### 1. Introduction

This Traffic Electrical System Qualification and Approval Program has been developed and implemented by the Office of Traffic, Safety and Technology (OTST) to ensure that quality and compatible products are used when constructing Traffic Control Signals and Lighting on MnDOT construction projects.

This program is intended to provide a means for inclusion of a product on MnDOT's Approved/Qualified Products List for Signals or Lighting.

#### 2. Scope

This program applies to all Traffic Electrical products for use on MnDOT highways. Participation in this program is required for all Traffic Electrical Products. Vendors or Manufacturers who intend to supply their Traffic Electrical Systems for use on MnDOT projects must have their products listed on the appropriate APL before supplying the product to a MnDOT project.

Other local municipalities may review these requirements for adoption by their agency. Technical assistance by MnDOT is available on request to local agencies in Minnesota.

Vendor/Manufacturer's Traffic Electrical Product approval is limited to specific brand and model.

#### 3. Specifications

Vendor/Manufacturer's Traffic Electrical Product shall meet MnDOT's Standard Specifications for Construction and any specifications relating to the product as posted on MnDOT's Approved/Qualified Products web site.

#### 4. Traffic Electrical System Approved Products List Process

Traffic Electrical Products are approved by successful completion of a new traffic products review process by MnDOT's Office of Traffic, Safety and Technology (OTST). This program requires:

- (A) Product Submittal
- (B) Demonstration of the ability to manufacture Traffic Electrical Product.
- (C) Provisional Approval of Product
- (D) Field testing/evaluation of the product.
- (E) Product listing on MnDOT's Approved/Qualified Products List.

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## 5. Product Submittal

Complete and submit to MnDOT OTST the new product evaluation form and any independent test results performed on the product demonstrating its conformance with MnDOT Standard Specification for Construction.

Provide and any specifications relating to the product as posted on MnDOT's Approved/Qualified Products.

All information submitted as part of the application process will be considered public data. Do not submit intellectual property.

Send the information to:

MnDOT Office of Traffic, Safety and Technology (OTST) new product coordinator:

Minnesota Department of Transportation  
Pavement Marking and Traffic Devices Engineer  
1500 W Co. Rd. B2, Mail Stop 725  
Roseville MN, 55113  
Phone: 651 - 234 - 7380  
Fax: 651 - 234 - 7370

If requested by MnDOT the Vendor/Manufacturer shall submit a sample of proposed Traffic Electrical Product to:

Minnesota Department of Transportation  
MnDOT Traffic Electrical Systems Engineer  
1500 W Co. Rd. B2, Mail Stop 725  
Roseville MN, 55113  
Phone: 651- 234 - 7052  
Fax: 651- 234 - 7042

Or to an alternate location as requested by MnDOT's Traffic Electrical Systems Engineer.

## 6. Submittal Expiration

MnDOT may request additional information from the applicant. The applicant must provide the requested information to MnDOT within 3 months of MnDOT's request. Applicants are responsible for meeting this deadline. If MnDOT does not receive the requested information within 3 months, the application will expire, and MnDOT will take no further action on the application. MnDOT will not notify an applicant of an expired application. If an application expires, the applicant may submit a new application packet to MnDOT, which shall include all the requirements set out above.

## 7. Demonstration of Manufacturing Ability

Before any Traffic Electrical Product is given provisional approval for field testing/evaluation the Manufacturer must demonstrate their ability by meeting the following requirements:

- (A) Demonstrate manufacturing capability
- (B) Provide technical assistance

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## 8. Manufacturing Capability

The Manufacturer must state in writing that it has in operation a plant adequate for, and adequately devoted to manufacturing of the specific Traffic Electrical Product. This statement must include assurance that the Manufacturer is capable of producing batch or lot sizes consistent with the quantities to be delivered for traffic electrical projects. This statement must also contain information that it has produced similar product over the past two (2) years with a successful record.

## 9. Technical Assistance

- (A) The Manufacturer shall have at least one technical representative available to educate MnDOT on the Traffic Electrical Product.
- (B) The Manufacturer shall also have at least one technical representative available to provide assistance to MnDOT personnel engaged in quality assurance operations.
- (C) The Manufacturer shall provide the name(s) and telephone number(s) for these representatives in the written agreement.

## 10. Provisional Approval

Upon receipt of the product submittal the Traffic Electrical Systems Section of the OTST will review the documentation and determine if the product should be included in operational field evaluation(s).

The Manufacturer or Vendor will be informed in writing of the results of this review. If the result is to proceed with field evaluation the product may be placed on a provisional approval list. The provisions of this limited approval will be included in a letter.

## 11. Field Testing/Evaluation

After receipt of provisional approval the Traffic Electrical Product is eligible for evaluation on actual construction and maintenance projects.

MnDOT reserves the right to determine the duration and type of the evaluation needed for each product.

It is the responsibility of the Vendor/Manufacturer to find a Contractor who would be willing to purchase and use their Traffic Electrical Product. The amount of usage would be limited to what is stated on the provisional approval letter.

## 12. Final Qualification

Upon successful completion of the required evaluation the Traffic Electrical Product will be placed on MnDOT's Approved/Qualified Products List.

## 13. Product Modifications

Once a product has been accepted by MnDOT as meeting the requirements of the specific product specification and placed on MnDOT's Approved/Qualified List no substitution of materials or modification of the product will be allowed unless the Manufacturer has received written permission from MnDOT allowing the substitution or change.

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### **14. Compliance with Requirements**

Non-compliance with the provisions of this program may result in removal of a product from MnDOT's Approved/Qualified Products List.

### **15. Project Qualification Restrictions**

Approved products must be listed on MnDOT's Approved/Qualified Products List on the project letting date. No products may be submitted for qualification and acceptance after the specific projects letting date has occurred.

### **16. MnDOT Contact Information**

Inquiries on the Traffic Electrical System Qualification and Approval Program can be sent to:

Minnesota Department of Transportation  
Pavement Marking and Traffic Devices Engineer  
OR  
Minnesota Department of Transportation  
MnDOT Traffic Electrical Systems Engineer