

State of Louisiana  
Department of Transportation and Development (DOTD)  
Traffic Operations Approved Product List (TOAPL) Qualification Procedure  
for  
TOAPL 155

**TS-2 TRAFFIC SIGNAL CABINET**

**REQUIRED DOCUMENTATION:**

Submittals:

Scan and submit all required documents electronically.

Evaluation Form:

A separate form shall be required for each model submitted for approval. See Traffic Operations Approved Product Evaluation Form located at the link below:

[http://wwwsp.dotd.la.gov/Inside\\_LaDOTD/Divisions/Operations/Traffic\\_Services/Pages/Traffic\\_Operations\\_Approved\\_Products\\_List.aspx](http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Operations/Traffic_Services/Pages/Traffic_Operations_Approved_Products_List.aspx)

Certification and/or Test Reports

General:

Each product shall be submitted with a Certificate of Compliance and test reports that the product meets **all** specifications in TCS No. 155.

Design and Production:

Provide documentation (from the manufacturer) of the QA program. Each TS-2 Traffic Signal Cabinet shall be manufactured in accordance with a written manufacturer's Quality Assurance program. The QA program shall include, as a minimum, specific design and production QA procedures.

Surge Protection Device (SPD):

The SPD unit shall be tested by a nationally recognized test lab for compliance with current UL 1449, 2nd edition or latest revision. A copy of the test results shall be provided upon request. The test results shall also include product/model number; circuit description; nominal operating voltage; maximum continuous load current; maximum continuous operating voltage, modes of protection, connection means, maximum surge current, and suppressed voltage rating, and installation instructions.

Product Data Sheets / Documentation

Include product data sheets to provide all pertinent information relative to the product to be evaluated; including, but not limited to, manufacturer's specifications.

Operation and maintenance manuals shall be provided. The operation manual shall include a block diagram schematic of all system hardware components.

Board level schematics shall be provided when requested.

Two (2) cabinet wiring diagrams and One (1) equipment manual shall be provided with each cabinet provided to a contractor or the Department.

Detailed directions/instructions for installation, programming and maintenance of the TS-2 Traffic Signal Cabinet must be included with each unit.

The manufacturer shall provide when requested all engineering data, diagrams, software changes or improvements, which increases performance of the TS-2 Traffic Signal Cabinet. This shall be available at no cost to LADOTD.

#### Parts List

The manufacturer shall provide a complete parts list including vendors for replacement parts.

#### Warranty

A two (2) year warranty on all parts and components of the entire TS-2 Traffic Signal Cabinet must be provided by the manufacturer. The warranty shall begin when the TS-2 Traffic Signal Cabinet is installed.

#### Maintenance And Purchase Support

The manufacturer shall provide certification in writing for the following items:

The equipment manufacturer shall maintain an adequate inventory of parts to support maintenance and repair of the controller cabinet. These parts shall be available for delivery within 48 hours of placement of an acceptable order.

The equipment manufacturer shall maintain an ongoing program of technical support for the controller cabinet. This equipment manufacturer's direct technical support shall be available to come to the installation site for any installation by the contractor or the Department, at no additional cost to the Department.

At least one (1) equipment manufacturer's direct employee will be on call 24/7 and be present at any designated state signal location within 12 hours. The contact information shall be provided to the State Traffic Signal Engineer at Traffic Services and continually updated.

#### Training

The manufacturer shall provide certification in writing that once the manufacturer provides any TS-2 Traffic Signal Cabinets to LADOTD or a contractor for a LADOTD construction project, the manufacturer shall from then on provide training classes to LADOTD at no cost. Training shall include the following:

Formal classroom training and "hands-on" operations training shall be provided for personnel designated by this agency. The "hands-on" training shall take place at locations within the state of Louisiana designated by

this agency. The formal classroom training shall take place at the Traffic Services facility at no additional cost to the Department.

Two (2) one (1) day training sessions are required each year and shall take place at a location within the state of Louisiana designated by this agency. Copies of course materials shall be supplied to and retained by each attendee.

The manufacturer shall agree to provide at least one (1) on-site (one day) field visit at each LA DOTD district office upon request during each year. The training will be informal, tailored to field technician's needs for that particular district.

Training shall include detailed installation, operation, and maintenance of the controller cabinet. A manual for each student shall be provided in the class.

**PRODUCT SAMPLE:**

Products may be subject to laboratory testing before final acceptance. If a sample is required, it will be requested from the manufacturer **after** the submitted documentation has been approved.

Return of sample must be arranged by the vendor and the vendor's expense. LADOTD, at its option, will perform sample testing of TS-2 Traffic Signal Cabinets at any time.

**DISQUALIFICATION:**

Any product may be removed from the TOAPL for non-conformance with specifications or performance requirements. The Department must be notified in writing of any name change or change in product. Significant changes may require reevaluation of the product.

Any deviation to hardware, software or accompanying elements without prior testing and approval from LADOTD, shall be grounds for automatic removal from the LADOTD Traffic Operations Approved Product List for an undetermined time

**REQUALIFICATION:**

Any product which has been disqualified and removed from the TOAPL will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been solved.

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