

RW-014
JANUARY 2003

ENGINEERING AND OPERATIONS
NORTHERN AIRPORTS

SPECIFICATION FOR SERIES CIRCUIT SECONDARY
EXTENSIONS FOR USE IN MEDIUM INTENSITY
AIRFIELD LIGHTING SYSTEMS

Manitoba
Transportation and
Government Services



**TRANSPORTATION AND GOVERNMENT SERVICES
NORTHERN AIRPORTS**

**SPECIFICATIONS FOR SERIES CIRCUIT
LIGHTING SECONDARY EXTENSIONS**

1. SCOPE

- 1.01 This specification defines the general requirements applicable to Series Circuit Secondary Extensions. The intent of this specification is to establish minimum acceptable electrical, mechanical, design and performance requirements which all Series Circuit Secondary Extensions must meet to ensure satisfactory and reliable operation. It is not intended to impose restrictions upon design or materials which must conform to the FAA L823 standard. All FAA standards, current FAA specifications at time of contract, not specifically mentioned in this specification will apply. Where there is a conflict between this specification and the latest FAA standard, this specification will apply.

2. REQUIREMENTS

- 2.01 Secondary extension must be in accordance with FAA Specifications L823.
- 2.02 Secondary extensions are to be supplied according to the length specified on the purchase order. The secondary extensions must be used in conjunction with stake mounting. The secondary connector (male) must be a Style 1 and the secondary connector (female) must be a Style 8 in accordance with FAA Specifications L823.
- 2.03 The secondary extension must be 2 CND #12 AWG rated at 600 volts. The extension must be manufactured with thermoplastic insulated waterproof material.
- 2.04 The electrical rating of the secondary extension must be 20 amps, 600 volts between contacts.

3. WARRANTY

- 3.01 All secondary extensions must be guaranteed against failure for one year from date of acceptance by the Traffic Engineering Branch of the Department of Transportation and Government Services.

4. INSPECTION AND ACCEPTANCE

- 4.01 The vendor must supply one evaluation sample unit of each secondary extension being supplied along with all test and technical documentation.

Secondary Extensions that conform to this specification and which are not currently in use by this Department must be submitted to the Traffic Signal Workshop for a one-year evaluation period by the Department. At the end of the evaluation period the supplier will be advised by the Traffic Operations Engineer if the equipment submitted for evaluation is acceptable.

The total cost of supplying this material for evaluation must be borne by the supplier. The bidder must complete the attached Specification Compliance Summary E-081 attached. Failure to complete the summary will result in disqualification from the bidding.

- 4.02 All shipments of secondary extensions must be delivered to the Mechanical Equipment Warehouse facility at 1550 Dublin Avenue, Winnipeg, Manitoba. At that time they will be inspected by the Traffic Engineering Branch of the Department of Transportation and Government Services.

Acceptance will be based on the supplied equipment meeting the requirements of this specification.

- 4.03 For additional technical information please contact Mark Seniuk at (204) 945-7335 office, or (204) 799-8682 cellular.