

RW-007
JANUARY 2003

**ENGINEERING AND OPERATIONS
NORTHERN AIRPORTS**

**SPECIFICATION FOR SERIES CIRCUIT
WINDSOCK CONVERSION KITS
FOR USE IN MEDIUM INTENSITY AIRFIELD
LIGHTING SYSTEMS**

Manitoba
Transportation and
Government Services



**TRANSPORTATION AND GOVERNMENT SERVICES
NORTHERN AIRPORTS**

**SPECIFICATIONS FOR WINDSOCK
CONVERSION KIT**

1. SCOPE

This specification defines the general requirements applicable to windsock conversion kits. The intent of this specification is to establish minimum acceptable electrical, mechanical, design and performance requirements, which all windsock conversion kits 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 or Transport Canada TP 312 Technical standard. All FAA and Transport Canada TP 312 standards, current FAA and Transport Canada TP 312 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 and Transport Canada TP 312 standard, this specification will apply.

2. REQUIREMENTS

- 2.01 Existing windsocks in the field operate on 120 volts and within a parallel system. Each conversion kit must allow the windsock to operate on a series circuit system.
- 2.02 The conversion kit must come complete with a 100W 6.6A fixture, lamp, brightness transformer in enclosure, and associated mounting hardware.
- 2.03 The windsock conversion kit must be interchangeable with the existing windsock hardware assembly.
- 2.04 A secondary lead with an L 823 Style 1 plug (male) and 3m lead-in must be supplied with the kit. The cable must be a 2 conductor #12 AWG, thermoplastic insulated and waterproof. The overall jacket must be rated at 600 volts.

3. WARRANTY

- 3.01 All units 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 type being supplied along with all testing and technical documentation.

Windsock conversion kits that conform to this specification and 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 equipment for evaluation must be borne by the supplier. The bidder must complete the attached "Specification Compliance Summary" (attached). Failure to complete the summary will result in disqualification from the bidding.

- 4.02 All shipments of windsock conversion kits must be delivered to the Mechanical Equipment Warehouse facility at 1550 Dublin Avenue, Winnipeg, Manitoba 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.