

RW-017
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**ENGINEERING AND OPERATIONS
NORTHERN AIRPORTS**

**SPECIFICATION FOR WINDCONE ASSEMBLY
FOR USE IN MEDIUM INTENSITY AIRFIELD
LIGHTING SYSTEMS**

**Manitoba
Transportation and
Government Services**



**TRANSPORTATION AND GOVERNMENT SERVICES
NORTHERN AIRPORTS**

**SPECIFICATIONS FOR MEDIUM INTENSITY
AIRFIELD LIGHTING WINDCONE ASSEMBLY**

1. SCOPE

- 1.01 This specification defines the general requirements applicable to medium intensity runway light windcone assemblies. The intent of this specification is to establish minimum acceptable electrical, mechanical, design and performance requirements, which all windcone assemblies must meet to ensure satisfactory and reliable operation. It is not intended to impose restrictions upon design or materials, which 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 shall stand. Where there is a conflict between this specification and the latest FAA and Transport Canada TP 312 standard, this specification shall apply.

2. REQUIREMENTS

- 2.01 The windcone assembly must conform to FAA and Transport Canada TP 312 specifications.
- 2.02 The windcone assembly is to be designed for a 100w 6.6A halogen lamp series circuit lighting system.
- 2.03 The windcone assembly must be manufactured of aluminum, structural "C" conduit, drop-pole style, complete with a counter weight.
- 2.04 The windcone assembly must be complete with a TYPE "A" swivel lamp holder.
- 2.05 The windcone assembly must be complete with a raintight disconnect switch and a constant brightness transformer rated for 6.6A.
- 2.06 The windcone assembly must be complete with a 12'x36" fabric windsack orange/white heavy duty Transport Canada approved.
- 2.07 Each windcone assembly must be complete with 4- 5/8"x 27" anchor bolts and fastening hardware.

3. WARRANTY

- 3.01 All units shall be guaranteed against failure for one year from date of acceptance by the Traffic Engineering Branch of the Department of Transportation and Government Services, Province of Manitoba.

4. INSPECTION AND ACCEPTANCE

- 4.01 Windcone assemblies that conform to this specification and are not currently in use by this Department shall be submitted to the Traffic Signal Workshop for a one-year evaluation period by Department personnel. At the end of the evaluation period the supplier shall be advised by the Traffic Operations Engineer if the equipment submitted for evaluation is acceptable to this Department.

The total cost of supplying this equipment for evaluation shall be borne by the supplier. The bidder shall complete the attached "Specification Compliance Summary" (attached). Failure to complete the summary will result in disqualification from the bidding.

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

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

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