



Transport Canada Update to IES ALC Fall Technology Meeting 24 October, 2016



Marc Juneau
Visual Aids Engineer
Civil Aviation – Aerodrome Standards
marc.juneau@tc.gc.ca



Transport
Canada

Transports
Canada

Canada



Outline

- TP312 – Aerodrome Standard and Recommended Practices, 5th Edition (differences)
- Standard 621 – Obstruction Marking and Lighting, 2nd Edition (wind turbines)
- Aeronautical Ground Lights and cold weather ops



Transport Canada vs FAA

FAA

FAR

Pt 139

AC

AC/GM



TC

CAR

Pt III

TP312

AC



Transport
Canada

Transports
Canada

Canada



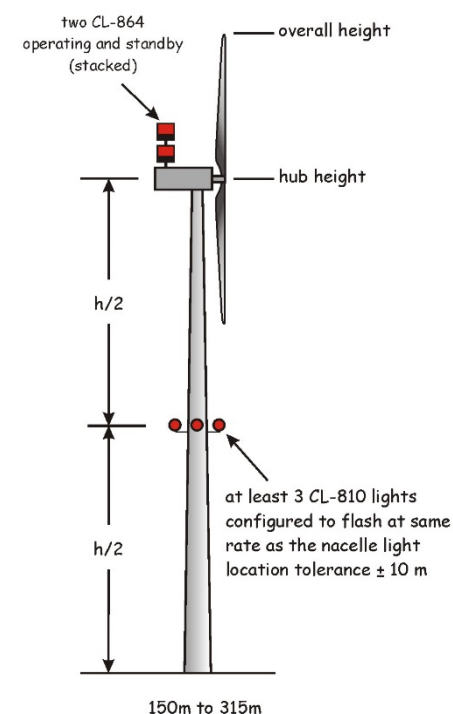
TP312, 5th Edition

- Released Sep 1st, 2015 (4th was in 1993)
- “Operational” vs “design based” concept
 - Aircraft Group Number (AGN) vs Aerodrome Reference Code (ARC)
- TC is mainly “Regulator”, no longer “owner”
 - Standard mandatory for CAR Pt III aerodromes
- TC does not approve lights; only sets standard
 - Operators/industry responsible to meet standard
- Adopted all FAA approach lighting
 - Standard mandatory for CAT I (SSALR) & CAT II/III (ALSF-2)



Standard 621, 2nd Edition

- Released Mar 1st, 2016
- Marking/lighting of objects >150m
 - AC on wind turbines intermediate lighting
- Aircraft Detection System (ADS)
 - AC on ADS coverage
- Few obstacle lighting issues:
 - Visibility sensor trial
 - Effective intensity of flashing LED



Aeronautical Ground Lights vs Cold WX

- Frost issues
 - Elevated fixtures in graded areas
 - AGL on ARCAL
 - LED
- AGL Housing
 - Load bearing of critical aircraft
 - Frost vs structural damage to aircraft

