



**REMOTELY PILOTED AIRCRAFT SYSTEMS  
SYMPOSIUM  
23-25 March 2015**

**ICAO Guidance Material  
(Operations)**

**Gerry Corbett**

**RPAS Panel – Operations WG Rapporteur**

## Scope

- **RPAS Manual**
  - Outline Operations related aspects
  - Highlight specific areas of note
- **Future SARPS development**

# RPAS Manual

- **Purpose is to provide Guidance** (to the entire UAS community)
- **Not ‘SARPS in another form’**
  - But....
  - consistent with RPAS standards already adopted
  - consistent with established aviation operations principles wherever possible
  - highlights the ‘new’ RPAS specific areas that should be considered
- **Guiding principles**
- **‘Living document’** (replaces Circular 328)

## Operations Related Chapters

- **‘The Operator’ – key to a safe operation....**
  - Ch 6 Responsibilities of RPAS operator
  - Ch 7 Safety management
  - Ch 9 RPAS Operations
  - Ch 11 Command and control link (C2 Link)
  - Ch 13 Remote pilot station

## Key Points

- **RPAS Operator Certificate (ROC)**
- **Contracted services – Operator responsibility**
  - C2 Link – Comms Service Providers
- **Remote PIC responsibilities**
  - Transfer of responsibility during flight
- **Fatigue Management**
  - ‘Boredom’ management?
  - New opportunities due to Remote Piloting?

## Key Points.....continued

- **Safety Management**
- **Operations**
  - Environmental
  - Types of operation – VLOS/BVLOS
  - RPS Handover
  - Emergencies
  - Security

## ...and the parts that make RPAS different!

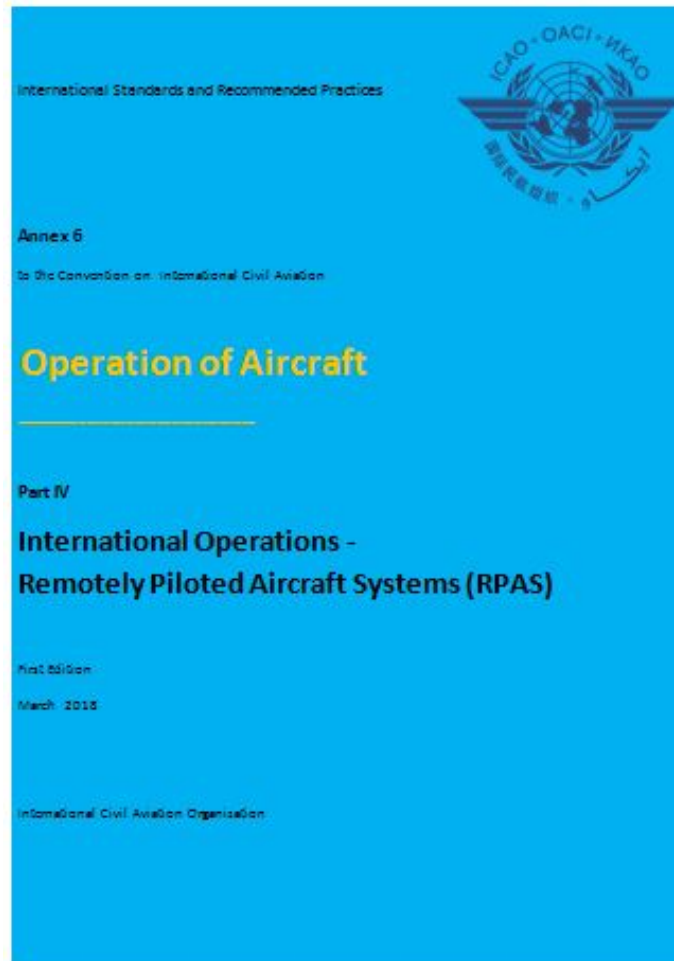
- **C2 Link**

- Architectures – RLOS/BRLOS
- Approval/oversight of comms service providers
- C2 Link management
- C2 Link loss

- **Remote Pilot Station (RPS)**

- Functional overview
- Multiple RPA types?
- Human Performance implications

# Future SARPS development





## Annex 6 Pt IV

- **International RPAS Operations**
- **First Edition – 2018**
  - Section I - General
  - Section II - RPAS Operations
  - Section III – RPAS Operator Certification



ICAO

North American  
Central American  
and Caribbean  
(NACC) Office  
Mexico City

South American  
(SAM) Office  
Lima

ICAO  
Headquarters  
Montréal

Western and  
Central African  
(WACAF) Office  
Dakar

European and  
North Atlantic  
(EUR/NAT) Office  
Paris

Middle East  
(MID) Office  
Cairo

Eastern and  
Southern African  
(ESAF) Office  
Nairobi

Asia and Pacific  
(APAC) Sub-office  
Beijing

Asia and Pacific  
(APAC) Office  
Bangkok



THANK YOU