

# Data comm

## Flight Planning

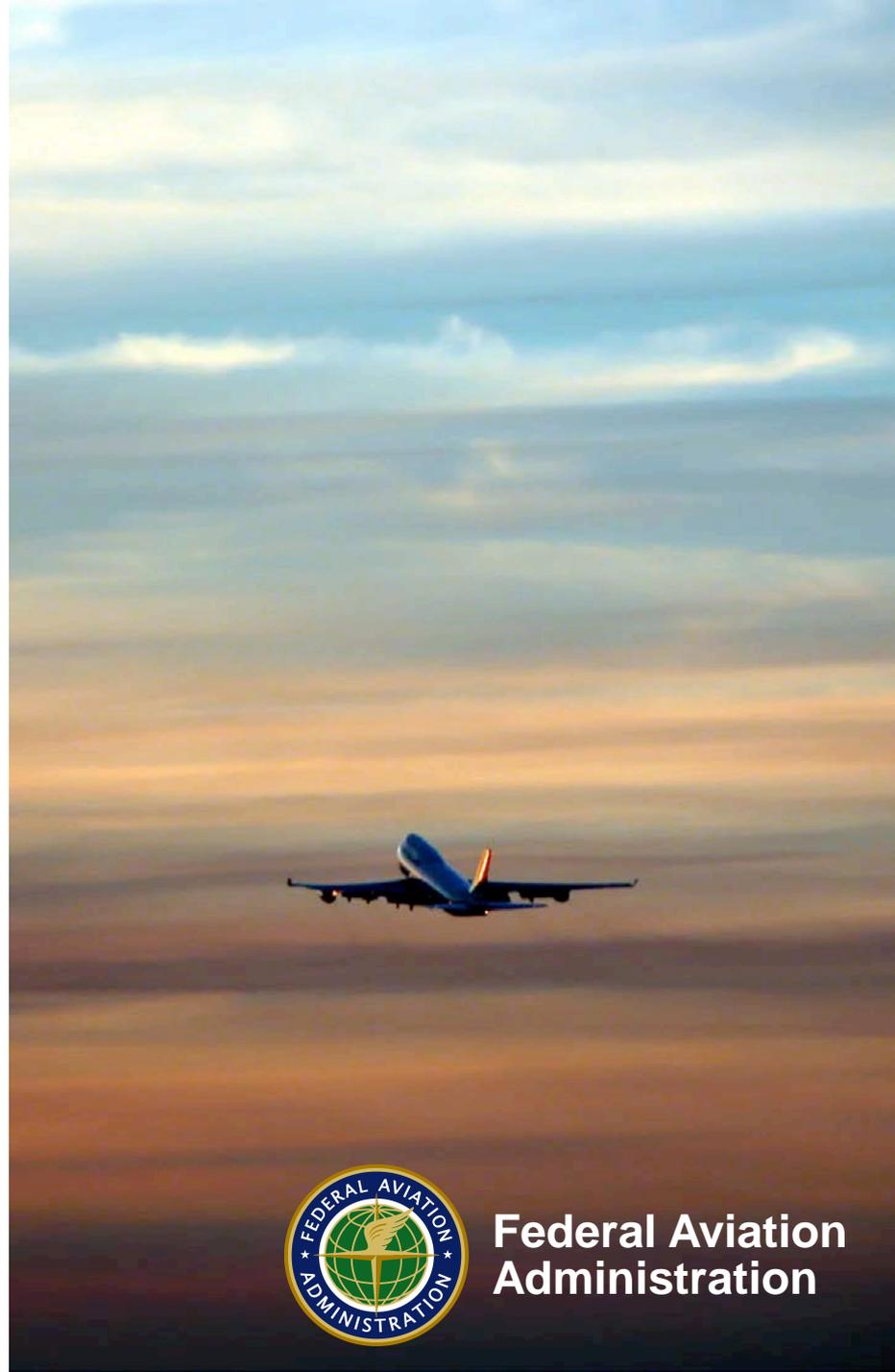
Presented to: NY OWG

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**Federal Aviation  
Administration**



# Flight Planning - Data Communications

- AC 90-[data comm]
- ICAO Doc 4444, *Procedures for Air Navigation Services — Air Traffic Management (PANS-ATM)*



# Flight Plans (regulatory basis)

**Flight planning must be in accordance with the following (where applicable):**

Part 91:

§91.169 IFR flight plan: Information required.

§91.173 ATC clearance and flight plan required.

Part 121:

§121.667 Flight plan: VFR and IFR: Supplemental operations.

§121.695 Disposition of load manifest, dispatch release, and flight plans: Domestic and flag operations.

§121.697 Disposition of load manifest, flight release, and flight plans: Supplemental operations.

Part 125:

§125.405 Disposition of load manifest, flight release, and flight plans.



# Flight Planning - general

## **When filing RCP/RSP capabilities, operators should ensure:**

- The planned use of associated communication and surveillance capabilities for the flight will be in accordance with regulations, policies and procedures in control areas for the flight, as published by the applicable States in AIPs (or equivalent publications)
- The appropriate information denoting PBCS capabilities is included in the ICAO flight plan

## **Capabilities comprise the following elements:**

- Presence of appropriate equipment on board the aircraft (and operating)
- Equipment and capabilities commensurate with pilot qualifications
- When applicable, appropriate authorizations as described in FAA Operations Specifications / Management Specifications / LOAs

## **Operational approval (A056) required to file PBCS Capabilities**



# Item 10a: Equipment and Capabilities

## Radiocommunication, navigation and approach aid equipment & capabilities

### J-codes

- J1 - CPDLC ATN VDL Mode 2
- J2 - CPDLC FANS 1/A HF DL
- J3 - CPDLC FANS 1/A VDL Mode A
- J4 - CPDLC FANS 1/A VDL Mode 2
- J5 - CPDLC FANS 1/A SATCOM (INMARSAT)
- J6 - CPDLC FANS 1/A SATCOM (MTSAT)
- J7 - CPDLC FANS 1/A SATCOM (Iridium)

### P-codes

- P1 - CPDLC RCP 400
- P2 - CPDLC RCP 240
- P3 - SATVOICE RCP 400
- P4-P9 – reserved for future



# Item 10b: Equipment and Capabilities

## Surveillance equipment and capabilities

### ADS-C

D1 - ADS-C with FANS 1/A capabilities

G1 - ADS-C with ATN capabilities

“N” if no surveillance equipment for the route to be flown is carried, or the equipment is unserviceable



# Item 18: Other Information

**DAT/** Indicate data communication equipment and applications or capabilities not specified in 10a

**SUR/** Indicate surveillance equipment and capabilities not specified in Item 10b

- Indicate as many RSP specification(s) as apply to the flight, using designator(s) with no space
  - RSP180
- Multiple RSP specifications are separated by a space
  - RSP180 RSP400.



# Flight Plans - examples

## RCP 240 and RSP 180

- Field 10 → “P2” and “P1” and appropriate “J” code
- Field 18 → “SUR/RSP180 RSP400”

## RCP 400 and RSP 400

- Field 10 → “P1” and appropriate “J” code
- Field 18 → “SUR/RSP400”

## No RCP/RSP

The operator may still use CPDLC/ADS-C but not for any services predicated on RCP/RSP

- Field 10 → no “P” code
- Field 18 → no “SUR/” indicated



# Questions??

