

Amendment 1 to International Civil Aviation Organization (ICAO)

Doc 4444:

Filed Flight Plan (FPL) Differences between PRESENT & NEW

Workshop on the ICAO 2012 Flight Plan Provisions (2012 FPL)
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Federal Aviation
Administration



Overview

- **Types of changes**
- **Summary of major changes**
- **Differences: PRESENT to NEW**



Types of Changes

- **Editorial clarification**
 - Format &/or content unchanged
 - Meaning clarified by edits to text
- **Format**
 - Style of filed information has changed
 - Example: Alphas in PRESENT / alphanumerics in NEW*
 - Size of field changed
- **Content**
 - New content specified



Summary of Major Changes

- **FPL submission prior to departure**
- **Date of Flight (DOF/) in Item 18**
- **Items 7 & 8**
- **Item 10 – Fields 10a & 10b**
- **Items 13, 15 & 16**
- **Item 18**



Differences: PRESENT to NEW

4.4.2.1.1 – FPL submission prior to departure

- PRESENT: Filed not more than 24 hours in advance
- **NEW: Filed not more than 120 hours in advance**

NOTE: Many States/ANSPs cannot justify changing current practice & will not modify submission timeframes



Differences: PRESENT to NEW

11.4.2.2.2.5 – Date of Flight (DOF) in Item 18

- PRESENT: FPL held in abeyance if filed more than 24 hours in advance
- **NEW: DOF shall be inserted in Item 18 if FPL filed more than 24 hours in advance**



Editorial Clarification

FPL Item 7 (Aircraft Identification)

- PRESENT: 7 alphanumeric characters
- **NEW: 7 alphanumeric characters without hyphens or symbols**



Differences: PRESENT to NEW

FPL Item 8 / Field 8b (Type of flight)

- PRESENT: Insert one letter (S, N, G ,M or X) to denote type of flight when required by ATS
- **NEW: Specify status following STS/ in Item 18**
 - STS – Reason for special handling by ATS

Differences: PRESENT to NEW

FPL Item 10 (Equipment **and capabilities**)

- PRESENT: Equipment

- **NEW: ... and capabilities**

Capabilities comprise the following elements:

- a) Presence of relevant serviceable equipment on board the aircraft;
- b) Equipment & capabilities commensurate with flight crew qualifications; and
- c) Where applicable, authorization from appropriate authority



Differences: PRESENT to NEW

FPL Item 10 / Field 10a (Data communication and navigation equipment **and capabilities**)

- PRESENT: Single alpha characters listed
- **NEW: Alphanumeric combinations used with many additional items added**

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“S”

- PRESENT: Standard equipment is VHF RTF, **ADF**, VOR & ILS
- **NEW: Standard equipment is VHF RTF, VOR & ILS**

NOTE: ADF removed

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“A”

- PRESENT: A – Not allocated
- **NEW: A – GBAS landing system**
 - GBAS – Ground-Based Augmentation System

“B”

- PRESENT: B – Not allocated
- **NEW: B – New LPV (APV with SBAS)**
 - LPV – Localizer Performance with Vertical Guidance
 - APV – Approach with vertical guidance
 - SBAS – Space Based Augmentation System

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“E1” “E2” “E3”

– PRESENT: E – Not allocated

– **NEW:**

E1 – FMC WPR ACAR

E2 – D-FIS ACARS

E3 – PDC ACARS

NOTE: E removed

- WPR – Waypoint reporting
- D-FIS – Data Link flight information services

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“G”

– PRESENT: G – (GNSS)

– **NEW: G – GNSS**

- **Note added – If G is used, augmentation must be specified in Item 18 following NAV/**



Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“J1” through “J7”

- PRESENT: J – (Data Link)
- **NEW: J1, J2, J3, J4, J5, J6 & J7 added**
 - J1 – CPDLC ATN VDL Mode 2**
 - J2 – CPDLC ATN FANS 1/A HF DL**
 - J3 – CPDLC ATN 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)**

NOTE: J removed



Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“M” “M1” “M2” “M3”

– PRESENT: M – Omega

– **NEW: M1, M2 & M3 added**

M1 – ATC RTF SATCOM (INMARSAT)

M2 – ATC RTF (MTSAT)

M3 – ATC RTF (Iridium)

NOTE: M removed

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“P1” through “P9”

– PRESENT: P – Not allocated

– **NEW: P1 – P9 reserved for RCP**

NOTE: P removed

- RCP - Required Communications Performance



Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“Q”

- PRESENT: Q – Not allocated
- **NEW: Q removed**

“R”

- PRESENT: R – RNP Type certification
- **NEW: R – PBN approved**
 - **Note added - If R used then specify PBN levels that can be met in Item 18 following PBN/**
 - PBN – Performance Based Navigation

Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“W”, “X” & “Y”

– PRESENT: W, X & Y – when prescribed by
ATS

– **NEW:**

W – RVSM approved

X – MNPS approved

**Y – ATS VHF with 8.33 kHz channel
spacing capability**



Differences: PRESENT to NEW

FPL Item 10 / Field 10a

“Z”

- PRESENT: Other equipment carried
 - Equipment specified in Item 18, preceded by COM/ or NAV/, as appropriate
- **NEW: Other equipment carried or other capabilities**
 - **Equipment or other capabilities specified in Item 18 preceded by COM/, NAV/ and or DAT/, as appropriate**

Differences: PRESENT to NEW

FPL Item 10 / Field 10b (Surveillance equipment and capabilities)

- PRESENT: File 1 or 2 alpha characters
 - 2 categories: SSR equipment & ADS equipment
- **NEW: File up to 20 alphanumeric combinations**
 - **4 categories:**
 - **SSR Modes A and C**
 - **SSR Mode S**
 - **ADS-B**
 - **ADS-C**

NOTE: SSR equipment & ADS equipment categories removed

- **List additional surveillance applications in Item 18 after SUR/**

Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“N”

- PRESENT: N – Nil
- **NEW: N – if no surveillance equipment for route to be flown is carried, or equipment is unserviceable**

Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“E”

- PRESENT: E – Not allocated
- **NEW: E – Transponder Mode S including aircraft identification, pressure-altitude & extended squitter (ADS-B) capability**



Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“H”

- PRESENT: H – Not used
- **NEW: H – Transponder Mode S including aircraft identification, pressure-altitude & enhanced surveillance capability**
 - Enhanced surveillance capability is ability of aircraft to down-link aircraft derived data via mode S transponder

Editorial Clarification

FPL Item 10 / Field 10b

“ I ”

- PRESENT: I – Transponder Mode S including aircraft identification transmission, but no pressure altitude transmission
- **NEW: I – Transponder Mode S including aircraft identification, but no pressure-altitude capability**



Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“L”

- PRESENT: L – Not used
- **NEW: L – Transponder Mode S including aircraft identification, pressure-altitude, extended squitter (ADS-B) & enhanced surveillance capability**

Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“P”

- PRESENT: P – Transponder Mode S including pressure-altitude, but no aircraft identification transmission
- **NEW: P – Transponder Mode S including pressure-altitude, but no aircraft identification capability**

Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“X”

- PRESENT: X – Mode S without both aircraft identification & pressure-altitude transmission
- **NEW: X – Mode S with neither aircraft identification nor pressure-altitude capability**



Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“B1” “B2” “U1” “U2” “V1” “V2”

– PRESENT: Not used

– **NEW:**

B1 – ADS-B with dedicated 1090 MHz ADS-B “out” capability

B2 – ADS-B with dedicated 1090 MHz ADS-B “out” & “in” capability

U1 – ADS-B “out” capability using UAT

U2 – ADS-B “out” & in capability using UAT

V1 – ADS-B “out” capability using VDL mode 4

V2 – ADS-B “out” & “in” capability using VDL mode 4

Differences: PRESENT to NEW

FPL Item 10 / Field 10b

“D1”

- PRESENT: D – ADS capability
- **NEW: D1 – ADS-C with FANS 1/A capabilities**

NOTE: D removed

“G1”

- PRESENT: G – Not used
- **NEW: G1 – ADS-C with ATN capabilities**

Editorial Clarification

FPL Item 13 (Departure Aerodrome and Time)

- PRESENT: Insert ICAO 4 letter location of departure aerodrome
- **NEW: Insert ICAO 4 letter location of departure aerodrome as specified in Doc 7910 (Location Identifiers)**



Differences: PRESENT to NEW

FPL Item 13 (Departure Aerodrome and Time)

- PRESENT: If no location indicator, insert ZZZZ & specify name of aerodrome in Item 18 preceded by DEP/
- **NEW: ... insert name & location of aerodrome in Item 18 preceded by DEP/ -or- 1st point of route or marker radio beacon in Item 18 preceded by DEP/**

Differences: PRESENT to NEW

FPL Item 15 (Route)

- PRESENT: Navigation aid is 2 – 3 alphas
- **NEW:**
 - **Added information on significant point**
 - **Significant point is 2 – 5 alphas to allow for waypoint names**

Editorial Clarification

FPL Item 15 (Route)

- PRESENT: Insert each point at which either a change of speed or level, a change of ATS route, &/or a change of flight rules is planned
- **NEW: ... is planned to commence**



Differences: PRESENT to NEW

FPL Item 15 (Route)

- PRESENT: Bearing & distance from a navigation aid (VOR)
- **NEW: Bearing & distance from a significant point**
 - **In areas of high latitude where determined by appropriate authority that reference to degrees magnetic is impractical, degrees true may be used**

Editorial Clarification

FPL Item 16 (Destination Aerodrome, Total Elapsed Time and **Destination** Alternate Aerodrome (s))

- PRESENT: Insert ICAO 4 letter location of destination aerodrome
- **NEW: Insert ICAO 4 letter location of destination aerodrome as specified in Doc7910 (Location Identifiers)**

Differences: PRESENT to NEW

FPL Item 16 (Destination Aerodrome, Total Elapsed Time and **Destination** Alternate Aerodrome (s))

- PRESENT: If no location indicator, insert ZZZZ & total elapsed time and specify name of aerodrome in Item 18 preceded by DEST/
- **NEW: ... insert name & location of aerodrome in Item 18 preceded by DEST/ then without a space insert the total elapsed time**

Differences: PRESENT to NEW

FPL Item 18 (Other Information)

- PRESENT: Indicators listed in “preferred” sequence
 - In practice filed in any sequence
- **NEW: Specifies indicators must be filed in the sequence shown**

Differences: PRESENT to NEW

FPL Item 18 Indicators

STS/ (Special handling by ATS)

- PRESENT: Free text entries
- **NEW: Specified entries only (no free text)**
 - Other reasons in free text after indicator RMK/

ALTRV – operated IAW altitude reservation

ATFMX – approved for exemption from
ATFM measures by ATS authority

FFR – fire-fighting

Differences: PRESENT to NEW

FPL Item 18 Indicators

STS/ (Special handling by ATS)

**FLTCK – flight check for calibration of
navaids**

HAZMAT – carrying hazardous material

HEAD – Head of State status

**HOSP – medical flight declared by medical
authorities**

HUM – operating on humanitarian mission

Differences: PRESENT to NEW

FPL Item 18 Indicators

STS/ (Special handling by ATS)

MARSA – military entity assumes responsibility for separation of military aircraft

MEDEVAC – life critical medical emergency evacuation

NONRVSM – non-RVSM capable flight intending to operate in RVSM airspace

SAR – engaged in search & rescue mission

STATE – engaged in military, customs or police services

Differences: PRESENT to NEW

FPL Item 18 Indicators

PBN/ (Performance based navigation)

- PRESENT: Not an indicator
- **NEW: File up to 8 alphanumeric entries**
 - **Maximum total length 16 characters**
 - **File only alphanumeric entries specified in table**

Differences: PRESENT to NEW

FPL Item 18 Indicator **PBN/**

A1 – RNAV 10 (RNP 10)

B1 – RNAV 5 all permitted sensors

B2 – RNAV 5 GNSS

B3 – RNAV 5 DME/DME

B4 – RNAV 5 VOR/DME

B5 – RNAV 5 INS OR IRS

B6 – RNAV 5 LORAN C

Differences: PRESENT to NEW

FPL Item 18 Indicator **PBN/**

C1 – RNAV 2 all permitted sensors

C2 – RNAV 2 GNSS

C3 – RNAV 2 DME/DME

C4 – RNAV 2 DME/DME/IRU

D1 – RNAV 1 all permitted sensors

D2 – RNAV 1 GNSS

D3 – RNAV 1 DME/DME

D4 – RNAV 1 DME/DME/IRU

Differences: PRESENT to NEW

FPL Item 18 Indicator **PBN/**

L1 – RNP 4

O1 – Basic RNP 1 all permitted sensors

O2 – Basic RNP 1 GNSS

O3 – Basic RNP 1 DME/DME

O4 – Basic RNP 1 DME/DME/IRU

S1 – RNP APCH

S2 – RNP APCH with barometric vertical navigation

T1 – RNP AR APCH with RF (authorization required)

T2 – RNP AR APCH without RF (authorization required)

Differences: PRESENT to NEW

FPL Item 18 Indicators

NAV/

- PRESENT: Significant data related to navigation equipment as required by ATS
- **NEW: Significant data related to navigation equipment, other than specified in PBN/, as required by ATS**
 - **Indicate GNSS augmentation, with space between 2 or more methods of augmentation**

Example: NAV/GBAS SBAS

Differences: PRESENT to NEW

FPL Item 18 Indicators

COM/

- PRESENT: Significant data related to communication equipment as required by ATS
- **NEW: Indicate communications applications or capabilities not specified in Item 10a**

Differences: PRESENT to NEW

FPL Item 18 Indicators

DAT/

- PRESENT: Significant data related to data link capability
 - DAT/S (satellite), DAT/H (HF), DAT/V (VHF), DAT/M (SSR Mode S)
- **NEW: Indicate data applications or capabilities not specified in Item 10a**

Differences: PRESENT to NEW

FPL Item 18 Indicators

SUR/ (Surveillance)

- PRESENT: Not an indicator
- **NEW: Indicate surveillance applications or capabilities not specified in Item 10b**

Differences: PRESENT to NEW

FPL Item 18 Indicators

DEP/ (Departure aerodrome)

- PRESENT: Name of departure aerodrome if ZZZZ in Item 13
- **NEW: Name & location of departure aerodrome if ZZZZ in Item 13**

Differences: PRESENT to NEW

FPL Item 18 Indicators

DEP/

- PRESENT: No mention of aerodromes not listed in relevant AIP
- **NEW: For aerodromes not listed in relevant AIP, after DEP/ insert**
 - 1. Latitude/longitude of location**
 - 4 figure latitude in degrees followed by N or S & 5 figure longitude in degrees followed by E or W

Example: 4620N07805W (11 characters)

Differences: PRESENT to NEW

FPL Item 18 Indicators

DEP/ (For aerodromes not listed in relevant AIP)

-or-

2. Bearing & distance from nearest significant point

- Identification of significant point followed by 3 figure bearing & distance from point in nautical miles (NM)

Example: DUB180040 is 180° bearing & 40NM from VOR “DUB”

-or-

3. 1st point of route (name or lat/long) or marker radio beacon

Differences: PRESENT to NEW

FPL Item 18 Indicators

DOF/ (Date of Flight)

- PRESENT: Not an indicator
- **NEW:** If departure is more than 24 but less than 120 hours from time of filing, must insert date of flight after DEP/
 - Use 6 figure format (YYMMDD)

Example: DEP/110701

Differences: PRESENT to NEW

FPL Item 18 Indicators

REG/ (Registration)

- PRESENT: Registration markings of aircraft if different from aircraft identification in Item 7
- **NEW: Nationality or common mark & registration mark of aircraft, if different from aircraft identification in Item 7**

Editorial Clarification

FPL Item 18 Indicators

EET/ (Estimated elapsed time)

- PRESENT: Accumulated elapsed time to points or FIR boundaries
- **NEW: Accumulated elapsed time from take-off to such points or FIR boundaries**

Editorial Clarification

FPL Item 18 Indicators

SEL/ (SELCAL code)

- PRESENT: SELCAL code, if prescribed by
ATS authority
- **NEW: SELCAL code, for aircraft so
equipped**

Editorial Clarification

FPL Item 18 Indicators TYP/ (Type aircraft)

- PRESENT: If ZZZZ is in Item 9, type(s) of aircraft, preceded if necessary by number(s) of aircraft
- **NEW: If ZZZZ is in Item 9, type(s) of aircraft preceded if necessary without a space by number(s) of aircraft & separated by 1 space**

Example: TYP/2F15 5F5 3B2



Differences: PRESENT to NEW

FPL Item 18 Indicators

DLE/ (En route delay or holding)

- PRESENT: Not an indicator
- **NEW:** Insert significant point(s) on route where en route delay or holding is planned, followed by length of delay using 4 figure time (HHMM)

Example: DLE/MDG0030

Differences: PRESENT to NEW

FPL Item 18 Indicators

ORGN/ (Originator)

- PRESENT: Not an indicator
- **NEW: Originator's 8 letter AFTN address or other contact details, in cases where originator of FPL may not be readily identified, as required by the ATS**

NOTE – FPL reception centers may insert ORGN/ identifier & originator's AFTN address automatically



Differences: PRESENT to NEW

FPL Item 18 Indicators

PER/

- PRESENT: Aircraft performance data, if prescribed by ATS
- **NEW: Aircraft performance data, indicated by single letter as specified in PANS-OPS, Doc 8168, Volume I – Flight Procedures, if prescribed by ATS**

Editorial Clarification

FPL Item 18 Indicators

ALTN/

- PRESENT: Name of destination alternate, if ZZZZ in Item 16
- **NEW: Name of destination alternate aerodrome(s), if ZZZZ in Item 16**
 - Aerodromes not listed in relevant AIP: indicate location in LAT/LONG –or– bearing & distance from nearest significant point (as described in DEP/)



Differences: PRESENT to NEW

FPL Item 18 Indicators

RALT/

- PRESENT: Name of en route alternate, if ZZZZ in Item 16
- **NEW: ICAO 4 letter indicator(s) for en route alternate(s), specified in Doc 7910, or name(s) of en route alternate aerodrome(s)**
 - If no indicator allocated: indicate location in LAT/LONG –or– bearing & distance from nearest significant point (as described in DEP/)

Differences: PRESENT to NEW

FPL Item 18 Indicators

TALT/

- PRESENT: Not an indicator
- **NEW: ICAO 4 letter indicator(s) for takeoff alternate, specified in Doc 7910, or name of takeoff alternate aerodrome**
 - If no indicator allocated: indicate location in LAT/LONG –or– bearing & distance from nearest significant point (as described in DEP/)

Questions?

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