# **Appendix B. Special Codes**

Exchange File Format Version 3.3 (9/10/2004)

#### **Special Codes**

Some fields have ranges defined by special codes. The following tables define these codes.

# Existence Flags

Each data field has a corresponding existence flag. The following are the positions for each existence flag:

Column 94:	Existence flag for field 1
Column 96:	Existence flag for field 2
Column 98:	Existence flag for field 3
Column 100:	Existence flag for field 4
Column 102:	Existence flag for field 5
Column 104:	Existence flag for field 6
Column 106:	Existence flag for field 7
Column 108:	Existence flag for field 8
Column 110:	Existence flag for field 9
Column 112:	Existence flag for field 10

The following are valid values for Existence Flags:

0	Known
1	Unknown

#### **Obstruction Accuracy Codes**

Accuracy codes are 2 character codes which designate the accuracy of a feature. The accuracy code is not the accuracy at which a feature is collected but rather the minimum accuracy required for a feature depending on where it falls within the OIS.

The first character of the accuracy code is the horizontal accuracy.

Value	Accuracy
1	20 feet
2	50 feet
3	100 feet

The second character of the accuracy code is the vertical accuracy.

Value	<u>Accuracy</u>
А	3 feet
В	10 feet
С	20 feet
D	50 feet
М	ESTIMATED MAXIMUM ELEVATION*
?	NO TOP ELEVATION – NO VERTICAL ACCURACY

The special accuracy code 99 indicates features that are not obstructions (such as Geodetic Control, Photo Control, Polygons, etc.). Refer to the "FAA No. 405" for minimum allowable accuracies for these features.

A vertical accuracy designation of M, estimated maximum elevation, is provided when the elevation of an object cannot be determined precisely, as with mobile cranes.

## **Horizontal Datum Tie Codes**

-		UNDEFINED
В	5 CM	GPS ANA
С	50 CM	GPS ADAM
D	1:100,000	CLASSICAL 1ST ORDER
E	1:50,000	CLASSICAL 2ND ORDER CLASS I
F	1:20,000	CLASSICAL 2ND ORDER CLASS II
G	1:10,000	CLASSICAL 3RD ORDER CLASS I
Η	1:5,000	CLASSICAL 3RD ORDER CLASS II
Ι	15 FT	PHOTOGRAMMETRIC
J	>15 FT	OTHER

# **Ellipsoidal Datum Tie Codes**

-		UNDEFINED
В	15 CM	GPS ANA
С	50 CM	GPS ADAM
D	1 M	GEOID 96 MODEL (ORTHO+GEOID)
Е	> 1 M	OTHER

## **Orthometric Datum Tie Code**

-		UNDEFINED
А	1.0 MM * SQRT(K)	CLASSICAL 1ST ORDER CLASS I
В	1.4 MM * SQRT(K)	CLASSICAL 1ST ORDER CLASS II
С	2.0 MM * SQRT(K)	CLASSICAL 2ND ORDER CLASS I
D	2.6 MM * SQRT(K)	CLASSICAL 2ND ORDER CLASS II
Е	4.0 MM * SQRT(K)	CLASSICAL 3RD ORDER
F	24.0 MM * SQRT(K)	CLASSICAL AOC VERTICAL TIE
G	25 CM	GPS ANA
Н	10 FT	PHOTOGRAMMETRIC
Ι	> 10 FT	OTHER

## Point Survey Status Attribute Code

- Undefined
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- D Not Verified
- C Checked by Survey Methods
- W New Point
- I Checked by Visual Inspection
- G Checked by General Inspection
- R Retied
- B New Base Elevation
- T New Top Elevation
- V New Vertical Position
- ? Questionable Position Change

P Photogrammetrically Determined Position

# **Control Type Attribute Code**

- Undefined
- P PACS
- A SACS
- C TACS T Triang
- T Triangulation Station
- L Local Control
- S Sub Point (Photo Control)

# **<u>NAVAID Type Attribute Code</u>**

Code	Abbreviation	Full Name
-		Undefined
+	APBN	Airport Beacon
=	ALS	Approach Lights
W	ARSR	Air Route Surveillance Radar
А	ASR	Airport Surveillance Radar
,	ATCBI	ATCBI
J	BCM	Back Course Marker
D	DME	Distance Measuring Equipment
Y	FM	Fan Marker
F	GS	Glide Slope
G	IM	Inner Marker
Κ	LDA	Localizer Type Directional Aid
Ζ	LFR	Low Frequency Radio Range
R	LMM	Locator Middle Marker
E	LOC	Localizer
S	LOM	Locator Outer Marker
>	LRR	Long Range Radar
L	MLSAZ	MLS Azimuth Guidance
Ν	MLSEL	MLS Elevation Guidance
V	MLSDME	DME associated with MLS
Н	MM	Middle Marker
Х	NDB	Nondirectional Beacon
#	NDB/DME	
В	OTHER	Other NAVAID
Ι	OM	Outer Marker
&	PAPI	Precision Approach Path Indicator
%	PAR	Precision Approach Radar
!	PLASI	PLASI
*	PVASI	Pulsating Visual Approach Slope Indicator
\$	REIL	Runway End Identifier Lights
0	SDF	Simplified Directional Facility
:	STARS	STARS component
Μ	TACAN	Tactical Air Navigation
С	TDR	GCA Touchdown Reflectors

(	TRCV	Tri-color Visual Approach Slope Indicator
)	TVASI	"T"-Visual Approach Slope Indicator
~	VASI	Visual Approach Slope Indicator
Р	VOR	VHF Omni Directional Range
Т	VOR/DME	
Q	VORTAC	VOR + TACAN

#### **Special Attribute Code**

-	Undefined

T Outside specified Obstruction Identification Surface (OIS)

Note: T refers to a feature which falls outside the surfaces defined in the FAA NO. 405 but which is of interest.

## **Runway Approach Type Codes**

#### Runway\_Approach\_Types: ANA surveys

- NUL NUL
- PC1 ANA PC, Cat 1
- PC2 ANA PC, Cat 2/3
- AP1 ANA PC, Cat 1 Revision Date: January 28, 2004
- AP2 ANA PC, Cat 2/3 Revision Date: January 28, 2004

# **Runway Approach Types: CGR surveys**

- NUL NUL
- CGP PRECISION INSTRUMENT APPROACH, INCLUDES APPROACH AND PRIMARY SURFACES ONLY
- CGD NONPRECISION APPROACH VISIBILITY MINIMUMS AS LOW AS <sup>3</sup>/<sub>4</sub> MILE INCLUDES APPROACH AND PRIMARY SURFACE ONLY

#### **Runway Approach Types: F77 surveys**

- NUL NUL
- PIR PRECISION INSTRUMENT APPROACH
- ANP NONPRECISION APPROACH UTILITY RUNWAY
- C NONPRECISION APPROACH VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
- D NONPRECISION APPROACH VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
- AV VISUAL APPROACH UTILITY RUNWAY
- BV VISUAL APPROACH
- BVC BV w/Supplemental C

# **Runway Approach Types: OEP surveys**

- NUL NUL
- OEP Operation Evolution Plan

#### **Runway Approach Types: RBI surveys**

- NUL NUL
- RBI Ron Brown Airport Initiative

#### Poly Feature Survey Status Attribute Code

- Undefined
- D Not Verified
- C Checked by Survey Methods
- W New Feature
- I Checked by Visual Inspection
- G Checked by General Inspection
- R Retied
- B New Base Elevation
- T New Top Elevation
- V New Vertical Position
- ? Questionable Position Change
- P Photogrammetrically Determined Position

# Source Codes

- F Field (ground survey: GPS or Classical)
- E Manual Entry (direct numerical edits performed in the field)
- R Remote Sensing (measurements made from interpreted imagery)
- O Office (direct numerical edits performed in the office)