Appendix B. Special Codes

Exchange File Format Version 4.0 (02/07/2006)

Special Codes

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

Airport Mode Codes

- 0 Open
- 1 Closed
- 3 Testing
- 5 No Obstructions
- 7 Discontinued

Control Type Attribute Codes

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

Ellipsoidal Datum Tie Codes

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

Feature Status Flags

- 0 Active point is completely active and to be considered for all surfaces.
- 1 Disabled (Completely) the point still exists but should not be considered for any surfaces due to clutter or other reasons; will be deleted from the database when the next edition is created.
- 2 Investigate the point was collected with remote sensing techniques and is to be scrutinized when verified during the following field survey.
- 3 Deleted the point no longer physically exists and will not be considered for any surfaces; will be deleted from the database when the next edition is created.
- 4 Disabled for AOC only the point should be considered for all surfaces except for AOC surfaces.
- 5 Remove the point still exist but it is recommended by (field surveyor) that it not be published.
- 6 Disabled for ANA only the point should be considered for all surfaces except for ANA surfaces.
- 7 Replaced another representative point was collected and this one is no longer required. It is not considered active and should be omitted from future surveys.
- 8 Inactive the point still exists but only for historical or informational purposes; is not considered for any surfaces.
- 9 Rejected the point was surveyed in this latest edition but was later determined by (field surveyor) to be discarded.

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

NAVAID Type Attribute CodesCodeAbbreviation

Code	Abbreviation	Full Name
_		Undefined
+	APBN	Airport Beacon
=	ALS	Approach Lights
W	ARSR	Air Route Surveillance Radar
А	ASR	Airport Surveillance Radar
U	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	Non-directional 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
М	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

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	<u>Accuracy</u>
1	20 feet
2	50 feet
3	100 feet

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

<u>Value</u>	Accuracy
А	3 feet
В	10 feet
С	20 feet
D	50 feet
Μ	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.

The special accuracy code of "--" means that the accuracy is undefined. This is included for consistency but is not expected.

Orthometric Datum Tie Codes

-		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 Codes

Undefined -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

Poly Feature Accuracy Codes

Numeric codes are used to designate the accuracy of poly features. The accuracy code is not the accuracy at which a feature is collected but rather the minimum accuracy required for a feature.

The accuracy code represents horizontal and vertical accuracy respectively separated by a slash (/).

Value	Accuracy
5/10	Maximum 5 feet horizontally and 10 feet vertically.
20/10	Maximum 20 feet horizontally and 10 feet vertically.
100/10	Maximum 100 feet horizontally and 10 feet vertically.

Poly Feature Survey Status Attribute Codes

- 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

Poly Feature Usage Status Codes

- NUL None
- UNC Under Construction
- NIU Not In Use

Profile Method Flag Codes

- 0 Conventional profiling
- 1 Kinematic GPS profiling
- 2 Photogrammetric Methods
- 3 LIDAR
- 9 None

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: LPV surveys

- NUL NUL
 - LPV ANA LPV

Runway Approach Types: CGR surveys

- NUL NUL
- CGP PRECISION INSTRUMENT APPROACH, INCLUDES APPROACH AND PRIMARY SURFACES ONLY
- CGN NONPRECISION APPROACH UTILITY RUNWAY, INCLUDES APPROACH AND PRIMARY SURFACES ONLY
- CGC NONPRECISION APPROACH VISIBILITY MINIMUMS GREATER THAN 3/4 MILE, INCLUDES APPROACH AND PRIMARY SURFACES ONLY
- CGD NONPRECISION APPROACH VISIBILITY MINIMUMS AS LOW AS ³/₄ MILE INCLUDES APPROACH AND PRIMARY SURFACE ONLY
- CGA VISUAL APPROACH UTILITY RUNWAY, INCLUDES APPROACH AND PRIMARY SURFACES ONLY
- CGB VISUAL APPROACH, INCLUDES APPROACH AND PRIMARY SURFACES 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

Runway Type Codes

- P Paved
- S Specially prepared, unpaved
- U Unpaved (not a specially prepared hard surface)
 - Undefined

Source Codes

- Undefined
- 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)
- C Computed (software determined from existing survey data)

Special Attribute Codes

- 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.

Surface Type Codes

- NUL None
- F77 FAR Part-77
- ANA Area Navigation Approach
- LPV Area Navigation Approach Localizer Performance with Vertical Guidance (ANA LPV)
- RBI Ron Brown Airport Initiative
- OEP Operational Evolution Plan
- CGR Congressional

Survey Type Codes

1	AOC (FAR-77)	- a conventional AOC (FAR 77) survey
2	ANA	- an ANA survey
3	AOC & ANA	- a complete survey for AOC and ANA
4	NAVAID Only	
5	Runway Only	
6	STARS Only	
7	Runway End	
8	OEP	
9	SafeFlight Only	
10	RBI	
11	ALD	

- 11 ALP
- 12 CGR
- 13 ANA LPV
- 99 Mixed
- 100 None/Unknown

Usage Status Codes

- NUL None
- UNC Under Construction
- OTS Out of Service
- NCM Non-Commissioned

Vertical Datum Codes

29 NGVD 29

88 NAVD 889001 Mean Sea Level9003 Local Tidal