

ANNOTATED FILE LISTING
UNIVERSAL DATA DELIVERY FORMAT
VERSION 1.07

THIS ANNOTATED FILE LISTING INCLUDES A CODE NUMBER FOR EACH FIELD.
THIS CODE NUMBER IS LOCATED BELOW THE FIRST CHARACTER IN THE FIELD. THESE
NUMBERS ARE DECODED AT THE END OF THIS DOCUMENTATION.

AIRPORT DATA

0	1	2	3	4	5	6	7	8	9	10	11
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890											
MFR	19514.A	ANM	1.07								
1	2	3	4								
MEDFORD-JACKSON	COUNTY	AIRPORT						0721993			
5								6			
MEDFORD				OREGON							
7				8							
NAD83	5 CM		NAVD88	25 CM							
9	10	11	12	13							
-17.3	0721993										
14	15										
1330.6		32+0	0721993								
16	17	18	19								
1352.0		0721993									
20	21	22									
422220.1	-1225221.3										
23	24										

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RUNWAY DATA

0	1	2	3	4	5	6	7	8	9	10	11
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890											
9	P 0721993										
30	31 32										
N 0721993											
33 34											
422225.9460	-1225245.9050	1131639	3146 100 0721993								
35	36	37	38	39	40						
1315.6		0721993									
41	42	43									
44	45	46	47								
0	1304.8	0721993									
48	49	50	51								
500	1306.0	0721993									
1790	1311.0	0721993									
2380	1313.0	0721993									
2790	1314.0	0721993									
3146	1316.1	0721993									
3908	1319.0	0721993									
#											
27	P 0721993										
N 0721993											
422213.6660	-1225207.4160	2931705	3146 100 0721993								
1316.1	0721993										
0	1316.1	0721993									
350	1314.0	0721993									
766	1313.0	0721993									
1356	1311.0	0721993									
2646	1306.0	0721993									
3146	1304.8	0721993									
3843	1298.0	0721993									
#											
14	P 0721993										
N 0721993											
422251.0140	-1225234.9390	1584558	6700 150 0721993								
1310.1	0721993										
0	1294.1	0721993									
1081	1299.7	0721993									
3000	1310.0	0721993									
3730	1313.0	0721993									
6700	1330.6	0721993									
#											
32	P 0721993										
N 0721993											
422149.3290	-1225202.6210	3384621	6700 150 0721993								
1330.6	0721993										
0	1330.6	0721993									
2970	1313.0	0721993									
3700	1310.0	0721993									

	5619		1299.7				0721993	
	6700		1294.1				0721993	

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NAVIGATIONAL AID DATA

0	1	2	3	4	5	6	7	8	9	10	11
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890											

	ASR	(MFR)			422306.6000	-1225146.7000	1310.0					0721993	
60				61		62	63	64	65	66	67		

	ASR	(MFR)			422306.6000	-1225146.7000	1310.0					0721993	
	DME	(14_MFR)			422140.0470	-1225201.8010	1334.0					0721993	
	GS	(14_MFR)			422242.4910	-1225224.7530	1297.1					0721993	
	GS	(14_MFR)	PP		422241.0590	-1225229.7230			400R	1081		0721993	
	LMM	(14_MFR)			422321.0000	-1225250.6000				3250		0721993	
	LMM	(14_MFR)	CLPT		422322.5454	-1225249.3030			4L	3250		0721993	
	LOC	(14_MFR)			422140.1380	-1225157.8070	1318.9			998		0721993	
	LOM	(14_MFR)			422703.2000	-1225448.2000				27420		0721993	
	LOM	(14_MFR)	CLPT		422702.5454	-1225444.3030			221L	27385		0721993	
	VORTAC	(OED)			422846.5000	-1225446.7000	2080.0					0721993	

#													
	ALS	(14)			422100.1234	-1225100.0023						0721993	
	APBN											0721993	
	REIL	(14)										0721993	

#													
	MTI # 1				350337.2031	-895915.6612						0721993	
	MTI # 2				350343.7826	-895834.7896						0721993	
	CPME				350300.2394	-895851.9403						0721993	
	RBPM				345414.0699	-895513.5368						0721993	

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OBSTRUCTION DATA (APPROACH, PRIMARY, AND MISSED APPROACH SURFACES)

0	1	2	3	4	5	6	7	8	9	10	11	12
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890												

	9		AV																		
70	71																				
	ROAD(N)				422227.04	-1225254.70	1A	1313				8	-3	-18	650			159R	-14	0721993	
72				73	74		75	76	77	78	79	80	81	82	83	84	85	86			

	TREE				422223.12	-1225305.13	1A	1347				42	31	16	1653			190L	-30	0721993	
	POLE				422231.66	-1225306.69	1A	1314				9	-2	-17	1662			85R	-64	0721993	

#																					
	27		AV																		
	FENCE				422211.51	-1225154.02	1A	1324				8	8	-7	1010			197R	-33	0721993	
	ANT ON BLDG				422207.85	-1225142.68	1A	1352				36	36	21	1938			193R	-51	0721993	

#																					
	14		PIR																		
	OL ON LTD WSK				422151.22	-1225159.92	1A	1335				41	25	4	-6594			258L	6	0721993	
	ROAD(N)				422154.48	-1225212.67	1A	1334				40	24	3	-5940		*	515R	8	0721993	
	OL ON LTD WSK				422215.67	-1225224.01	1A	1340				46	30	9	-3632		*	531R	28	0721993	
	ROD ON OL TMOM				422239.81	-1225222.04	1A	1317				23	7	-14	-1408			492L	15	0721993	
	OL ON LTD WSK				422241.56	-1225226.38	1A	1307				13	-3	-24	-1125			252L	7	0721993	
	ROD ON OL GS				422242.49	-1225224.75	1A	1349				55	39	18	-1081			400L	49	0721993	
	BLDG				422256.64	-1225244.69	1A	1299				5	-11	-32	796			476R	-7	0721993	
	TREE				422331.15	-1225303.87	1A	1360				66	50	29	4573			552R	-22	0721993	
	ANT ON TWR				422337.01	-1225303.87	1A	1373				79	63	42	5126			337R	-20	0721993	
	TREE				422759.80	-1225426.71	1A	2118				824	808	787	32172			3514L	75	0721993	
	TREE				422819.15	-1225450.09	1A	2161				867	851	830	34633			2590L	56	0721993	

#																					
	32		SUPLC																		
	ROD ON OL GS				422242.49	-1225224.75	1A	1349				18	18	18	-5618			400R	49	0721993	
	OL ON LTD WSK				422241.56	-1225226.38	1A	1307				-24	-24	-24	-5574			252R	7	0721993	
	ROD ON OL TMOM				422239.81	-1225222.04	1A	1317				-14	-14	-14	-5291			492R	15	0721993	
	OL ON LTD WSK				422215.67	-1225224.01	1A	1340				9	9	9	-3067		*	531L	28	0721993	
	ROAD(N)				422154.48	-1225212.67	1A	1334				3	3	3	-759		*	515L	8	0721993	
	OL ON LTD WSK				422151.22	-1225159.92	1A	1335				4	4	4	-105			258R	6	0721993	
	OL ON DME				422140.05	-1225201.80	1A	1339				8	8	8	898			283L	-12	0721993	
	OL ON LOC				422140.14	-1225157.81	1A	1334				3	3	3	998			0R	-20	0721993	
	TREE				422132.26	-1225151.42	1A	1357				26	26	26	1915			158R	-24	0721993	
	POLE				422130.00	-1225146.32	1A	1372				41	41	41	2267			432R	-19	0721993	
	VESSEL (A32)																			0721993	

#																					
	32		ANAPC																		
	ROD ON OL GS				422242.49	-1225224.75	1A	1349				18	18	18	-5618			400R	49	0721993	
	OL ON LTD WSK				422241.56	-1225226.38	1A	1307				-24	-24	-24	-5574			252R	7	0721993	
	ROD ON OL TMOM				422239.81	-1225222.04	1A	1317				-14	-14	-14	-5291			492R	15	0721993	
	OL ON LTD WSK				422151.22	-1225159.92	1A	1335				4	4	4	-105			258R	6	0721993	
	TREE				422132.26	-1225151.42	1A	1357				26	26	26	1915			158R	-8	0721993	
	POLE				422130.00	-1225146.32	1A	1372				41	41	41	2267			432R	0	0721993	
	VESSEL																			0721993	

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OBSTRUCTION DATA (FAR-77 HORIZONTAL, CONICAL, AND TRANSITION SURFACES)

0	1	2	3	4	5	6	7	8	9	10	11
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890											

	ARP		HCT																		
70	71																				
	OL ON LTD WSK				422215.67	-1225224.01	1A	1340				9	18724	488		10	0721993				
72				73	74		75	76	77	78	87	88	89	90	91						

	ANT AND APBN ON ATCT				422210.10	-1225224.72	1A	1386				55	17700	1040		30	0721993				
	OL ON AMOM				422230.12	-1225236.78	1A	1323				-8	29356	1545		-37	0721993				
	LT POLE				422204.31	-1225221.10	1A	1359				28	16210	1594		5	0721993				

TIES MAY BE SIGNIFICANTLY MORE ACCURATE THAN INDICATED.

ALL ACCURACIES ARE AT THE 95 PERCENT CONFIDENCE LEVEL.

12. ORTHOMETRIC ELEVATION DATUM/A10/35-44

13. ORTHOMETRIC ELEVATION DATUM TIE ACCURACY/A15/46-60

ACCURACIES ARE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) AND REPRESENT THE MINIMUM ACCURACY FOR THE DATUM TIE. BECAUSE OF VARIABLES IN THE SURVEY PROCESS, INDIVIDUAL TIES MAY BE SIGNIFICANTLY MORE ACCURATE THAN INDICATED.

ALL ACCURACIES ARE AT THE 95 PERCENT CONFIDENCE LEVEL.

14. MAGNETIC DECLINATION/F5.1/2-6

EAST DECLINATION IS INDICATED BY "--"

15. VERIFICATION DATE/A7/8-14

SEE FIELD 6

16. AIRPORT ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

17. AIRPORT ELLIPSOIDAL ELEVATION/F7.1/10-16

18. AIRPORT ELEVATION LOCATION/A8/18-25

LOCATION OF AIRPORT ELEVATION IN FEET FROM THE INDICATED RUNWAY END.
(FOR EXAMPLE, 30 + 1500 = 1500 FEET FROM THE APPROACH END OF RUNWAY 30).

19. VERIFICATION DATE/A7/27-33

SEE FIELD 6

20. CONTROL TOWER FLOOR ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

21. CONTROL TOWER FLOOR ELLIPSOIDAL ELEVATION/F7.1/10-16

22. VERIFICATION DATE/A7/18-24

SEE FIELD 6

23. AIRPORT REFERENCE POINT (ARP) LATITUDE/F9.1/2-10
A NEGATIVE (-) INDICATES SOUTH LATITUDE

24. AIRPORT REFERENCE POINT (ARP) LONGITUDE/F10.1/12-21
A NEGATIVE (-) INDICATES WEST LONGITUDE

25-29. INTENTIONALLY OMITTED

30. RUNWAY/A5/2-6

31. RUNWAY SURFACE TYPE/A1/8

P ... SPECIALLY PREPARED HARD SURFACE - PAVED
S ... SPECIALLY PREPARED HARD SURFACE - UNPAVED
U ... NOT A SPECIALLY PREPARED HARD SURFACE

32. VERIFICATION DATE/A7/10-16

SEE FIELD 6

33. BLAST PAD/A1/2

Y = BLAST PAD EXISTS
N = NO BLAST PAD EXISTS
X = NOT VERIFIED

34. VERIFICATION DATE/A7/4-10

SEE FIELD 6

35. RUNWAY CENTERLINE END LATITUDE /F12.4/2-13

36. RUNWAY CENTERLINE END LONGITUDE/F13.4/15-27

37. RUNWAY GEODETIC AZIMUTH/I7/29-35

FORMAT: DDDMMSS WHERE
DDD = DEGREES
MM = MINUTES
SS = SECONDS

AZIMUTH FROM SOUTH IF HORIZONTAL DATUM IS NAD 27

38. RUNWAY LENGTH/I5/37-41

39. RUNWAY WIDTH/I3/43-45

40. VERIFICATION DATE/A7/47-53

SEE FIELD 6

41. TOUCHDOWN ZONE ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

42. TOUCHDOWN ZONE ELLIPSOIDAL ELEVATION/F7.1/10-16

43. VERIFICATION DATE/A7/18-24

SEE FIELD 6

44. DISPLACED THRESHOLD LATITUDE/F12.4/2-13

45. DISPLACED THRESHOLD LONGITUDE/F13.4/15-27

46. DISPLACED THRESHOLD LENGTH/I7/29-35

47. VERIFICATION DATE/A7/37-43

SEE FIELD 6

48. RUNWAY PROFILE POINT DISTANCE FROM RUNWAY APPROACH END/I5/2-6

PROFILE POINT DISTANCE FROM RUNWAY APPROACH END IDENTIFIED IN FIELD 30.
 RUNWAY APPROACH END IS INDICATED BY 0 FEET.
 NOTE: IF A PROFILE POINT DISTANCE IS GREATER THAN THE RUNWAY LENGTH, THE POINT
 IS ON A STOPWAY. STOPWAY LENGTH IS EQUAL TO THE GREATEST PROFILE DISTANCE
 SHOWN MINUS THE RUNWAY LENGTH.

49. RUNWAY PROFILE POINT ORTHOMETRIC (MSL) ELEVATION/F7.1/8-14

50. RUNWAY PROFILE POINT ELLIPSOIDAL ELEVATION/F7.1/16-22

51. VERIFICATION DATE/A7/24-30

SEE FIELD 6

52-59. INTENTIONALLY OMITTED

60. NAVAID TYPE/A33/2-34

ELECTRONIC NAVAIDS, VISUAL NAVAIDS, AND RADAR COMPONENTS ARE LISTED SEPARATELY.

ELECTRONIC NAVAIDS ARE LISTED IN ALPHABETICAL ORDER BY TYPE. ILS AND MLS COMPONENTS
 INCLUDE THE RUNWAY SERVED AND ILS/MLS IDENTIFIER IN PARENTHESIS. NON-ILS/MLS COMPONENTS
 INCLUDE THE NAVAID IDENTIFIER IN PARENTHESIS.

"PP" (PERPENDICULAR POINT) REFERS TO THE POINT ON THE RUNWAY CENTERLINE OR CENTERLINE
 EXTENDED NEAREST TO THE INDICATED NAVAID.

"CLPT" (CENTERLINE POINT) REFERS TO THE POINT ON THE CENTERLINE EXTENDED NEAREST TO THE
 INDICATED ILS MARKER BEACON ANTENNA.

VISUAL NAVAIDS ARE LISTED IN ALPHABETICAL ORDER BY TYPE. VISUAL NAVAIDS INCLUDE THE
 RUNWAY SERVED IN PARENTHESIS. THE AIRPORT BEACON (APBN) IS THE ONLY VISUAL
 NAVAID CARRYING A POSITION.

FIELD 60 ALSO INCLUDES NAVAID STATUS IF KNOWN. THIS STATUS IS ABBREVIATED AS FOLLOWS:

OTS - OUT OF SERVICE, NCM - NOT COMMISSIONED, UNC - UNDER CONSTRUCTION.

IF THE UDDF FILE IS A "NAV##" FILE, FIELD 60 WILL ALSO INDICATE THE STATE WHERE THE
 NAVAID IS LOCATED.

61. NAVAID LATITUDE/F12.4/36-47

62. NAVAID LONGITUDE/F13.4/49-61

63. NAVAID ORTHOMETRIC (MSL) ELEVATION/F7.1/63-69

BASE ELEVATION OF THE NAVAID
 NOTE: FOR ILS DISTANCE MEASURING EQUIPMENT (DME) THE ELEVATION PROVIDED IS THE CENTER OF THE ANTENNA COVER;
 FOR MICROWAVE LANDING SYSTEM AZIMUTH GUIDANCE (MLS AZ), MICROWAVE LANDING SYSTEM ELEVATION GUIDANCE (MLSEL)
 AND END FIRE TYPE GLIDE SLOPE ANTENNAS THE ELEVATION PROVIDED IS THE PHASE CENTER OF THE REFERENCE
 POINT.

64. NAVAID ELLIPSOIDAL ELEVATION/F7.1/71-77

65. NAVAID OFFSET DISTANCE/A7/79-85

DISTANCE BETWEEN A NAVAID AND ITS ASSOCIATED PP OR CLPT, DEPENDING ON THE NAVAID.

OFFSET DISTANCES BETWEEN THE NAVAID AND ASSOCIATED PP ARE LISTED FOR:

- ILS GLIDE SLOPE AND LOCALIZER ANTENNAS
- MLS ELEVATION AND AZIMUTH GUIDANCE ANTENNAS
- LOCALIZER TYPE DIRECTIONAL AID ANTENNAS
- SIMPLIFIED DIRECTIONAL FACILITY ANTENNAS

OFFSET DISTANCES FOR THE NAVAIDS LISTED ABOVE ARE PROVIDED ONLY IF THE NAVAID IS MORE THAN 10 FEET OFF THE
 RUNWAY CENTERLINE OR CENTERLINE EXTENDED.

OFFSET DISTANCES BETWEEN ILS MARKER BEACON ANTENNAS AND ASSOCIATED CLPT ARE ALWAYS PROVIDED.

OFFSET DIRECTION L (LEFT) OR R (RIGHT) IS RELATIVE TO AN OBSERVER FACING FORWARD IN
 A LANDING AIRCRAFT.

66. NAVAID ALONG CENTERLINE DISTANCES/I6/87-92

DISTANCE BETWEEN THE NAVAID PP AND THE RUNWAY APPROACH OR STOP END, DEPENDING ON NAVAID.

DISTANCE BETWEEN NAVAID PP AND RUNWAY APPROACH END IS PROVIDED FOR THE FOLLOWING NAVAIDS.
 A NEGATIVE DISTANCE FOR THESE NAVAIDS INDICATES THAT THE PP IS ON THE APPROACH SIDE OF
 THE RUNWAY APPROACH END.

- ILS GLIDE SLOPE ANTENNAS

- MLS ELEVATION GUIDANCE ANTENNAS

DISTANCE BETWEEN NAVAID PP AND RUNWAY STOP END IS PROVIDED FOR THE FOLLOWING NAVAIDS.
A NEGATIVE DISTANCE FOR THESE NAVAIDS INDICATES THAT THE PP IS ON THE RUNWAY SIDE OF THE
RUNWAY STOP END.

- LOCALIZER ANTENNAS
- LOCALIZER TYPE DIRECTIONAL AID ANTENNAS
- MLS AZIMUTH GUIDANCE ANTENNAS
- SIMPLIFIED DIRECTIONAL FACILITY ANTENNAS

DISTANCE BETWEEN NAVAID AND RUNWAY APPROACH END IS PROVIDED FOR THE FOLLOWING NAVAIDS.
NOTE: FOR THESE NAVAIDS, THE PROVIDED DISTANCE IS FROM THE NAVAID, NOT THE PP, TO THE
RUNWAY END.

- BACK COURSE MARKER ANTENNAS
- ILS MARKER BEACON ANTENNAS

NOTE: FOR ILS MARKER BEACON ANTENNAS THE DISTANCE BETWEEN THE NAVAID'S CLPT AND RUNWAY
APPROACH END IS ALSO PROVIDED.

67. VERIFICATION DATE/A7/94-100

SEE FIELD 6

68-69. INTENTIONALLY OMITTED

70. OBSTRUCTION REFERENCE/A4/2-5

OBSTRUCTION INFORMATION IS ORGANIZED INTO OBSTRUCTION BLOCKS. EACH BLOCK IS
IDENTIFIED WITH A REFERENCE IDENTIFIER AND THE OBSTRUCTION IDENTIFICATION
SURFACES (OIS) FOR WHICH THE SURVEY WAS ACCOMPLISHED (FIELD 71).
FOR EXAMPLE, "4 AV" INDICATES THAT THE DATA IN THIS BLOCK PERTAINS TO RUNWAY
4 AND THAT THE OBSTRUCTION SURVEY WAS ACCOMPLISHED TO FAR77 VISUAL UTILITY RUNWAY
OIS SPECIFICATIONS (SEE OIS CODING BELOW).

OBJECTS LOCATED WITHIN A FAR77 APPROACH OR PRIMARY AREA ARE LISTED IN AN
OBSTRUCTION BLOCK WITH A RUNWAY NUMBER AS THE REFERENCE IDENTIFIER AND AN FAR77
OIS CODE.

OBJECTS LOCATED WITHIN AN AREA NAVIGATION APPROACH (ANA) CONVENTIONAL LANDING
APPROACH, PRIMARY, TRANSITION, OR MISSED APPROACH AREA ARE LISTED IN AN
OBSTRUCTION BLOCK WITH A RUNWAY NUMBER AS THE REFERENCE IDENTIFIER AND AN ANA
OIS CODE.

IF BOTH A FAR77 AND ANA SURVEY WERE ACCOMPLISHED FOR THE SAME APPROACH, THE DATA WILL BE
CARRIED IN TWO OBSTRUCTION BLOCKS, EACH SHOWING THE SAME RUNWAY NUMBER AS THE REFERENCE
IDENTIFIER BUT DIFFERENT OIS CODING.

OBJECTS LOCATED WITHIN A FAR77 HORIZONTAL, CONICAL, OR TRANSITION AREA ARE LISTED
IN AN OBSTRUCTION BLOCK WITH THE AIRPORT REFERENCE POINT (ARP) AS THE REFERENCE
IDENTIFIER AND "HCT" AS THE OIS CODE.

OBJECTS LOCATED WITHIN ANY HELIPORT OIS ARE LISTED IN AN OBSTRUCTION BLOCK WITH
THE HELIPORT REFERENCE POINT (HRP) AS THE REFERENCE IDENTIFIER AND AN ANA VERTICAL
LANDING OIS CODE.

71. OBSTRUCTION IDENTIFICATION SURFACE/A7/7-13

OBSTRUCTION IDENTIFICATION SURFACES (OIS) CODING FOLLOWS:

- ANAC - AREA NAVIGATION APPROACH - NONPRECISION, CONVENTIONAL LANDING
(STANDARDS TO BE DEVELOPED)
- ANAV - AREA NAVIGATION APPROACH - NONPRECISION, VERTICAL LANDING
(STANDARDS TO BE DEVELOPED)
- ANAPC - AREA NAVIGATION APPROACH - PRECISION, CONVENTIONAL LANDING,
INCLUDES APPROACH, PRIMARY, TRANSITION, AND MISSED APPROACH SURFACES.
- ANALPV - AREA NAVIGATION APPROACH - LOCALIZER PERFORMANCE WITH VERTICAL GUIDANCE,
INCLUDES APPROACH, PRIMARY, TRANSITION, AND MISSED APPROACH SURFACES.
- AV - FAR77 VISUAL APPROACH - UTILITY RUNWAY,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- ANP - FAR77 NONPRECISION APPROACH - UTILITY RUNWAY,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- BV - FAR77 VISUAL APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- C - FAR77 NONPRECISION APPROACH - VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- D - FAR77 NONPRECISION APPROACH - VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- PIR - FAR77 PRECISION INSTRUMENT APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- SUPLC - C APPROACH UNDERLYING A BV APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- HCT - FAR77 HORIZONTAL, CONICAL, AND TRANSITIONS
INCLUDES FAR77 HORIZONTAL, CONICAL, AND TRANSITION SURFACES ONLY.
- NUL - OIS NOT APPLICABLE

72. OBJECT NAME/A30/2-31

MOBILE OBJECTS:

AN ESTIMATED MAXIMUM ELEVATION (EME) POINT IS PROVIDED FOR FAR77 SURVEYS AT:

- (1) THE POINT NEAREST TO THE RUNWAY APPROACH CENTERLINE END FOR PRIMARY SURFACE PENETRATIONS,
- (2) THE MOST PENETRATING POINT FOR APPROACH SURFACE PENETRATIONS, AND
- (3) AS APPROPRIATE TO REPRESENT EACH MOBILE OBJECT AREA.

AN ESTIMATED MAXIMUM ELEVATION (EME) POINT IS PROVIDED FOR ANA SURVEYS AT:

- (1) THE POINT NEAREST TO THE RUNWAY CENTERLINE AT THE THRESHOLD FOR PRIMARY SURFACE PENETRATIONS,
- (2) THE MOST PENETRATING POINT FOR APPROACH SURFACE PENETRATIONS, AND
- (3) AS APPROPRIATE TO REPRESENT EACH MOBILE OBJECT AREA.

VESSELS:

VESSEL POSITIONS AND ELEVATIONS ARE NOT PROVIDED BECAUSE OF UNCERTAINTIES IN DETERMINING MAXIMUM VESSEL HEIGHTS, TRAVEL LIMITS, AND FREQUENCY OF PASSAGE.

IF A POSSIBLE VESSEL OBSTRUCTION EXIST, THE NAME "VESSEL" WILL BE ENTERED IN THE OBSTRUCTION BLOCK IN THE OBJECT NAME FIELD. FOR FAR77 STUDIES, THE GENERAL AREA OF POSSIBLE OBSTRUCTION WILL ALSO BE ENTERED IN PARENTHESIS WITH THE OBJECT NAME.

FOR VESSELS POSSIBLY OBSTRUCTING AN FAR77 APPROACH OR PRIMARY OIS, AN "A" FOLLOWED BY THE APPROPRIATE RUNWAY NUMBER, IN PARENTHESIS, WILL ALSO BE ENTERED IN THE OBJECT NAME FIELD.

FOR VESSELS POSSIBLY OBSTRUCTING AN FAR77 HORIZONTAL, CONICAL, OR TRANSITION OIS, AN "HCT" WILL ALSO BE ENTERED IN THE OBJECT NAME FIELD.

FOR VESSELS POSSIBLY OBSTRUCTING AN ANA OIS, ONLY THE NAME "VESSEL" WILL BE ENTERED IN THE OBJECT NAME FIELD.

EXAMPLES:

FOR FAR77 OIS:

VESSEL (A32) - VESSELS MAY OBSTRUCT THE RUNWAY 32 APPROACH OR PRIMARY OIS.

VESSEL (HCT) - VESSELS MAY OBSTRUCT AN FAR77 HORIZONTAL, CONICAL, OR TRANSITION OIS.

FOR ANA OIS:

VESSEL - VESSELS MAY OBSTRUCT THE APPROACH, PRIMARY, TRANSITION, OR MISSED APPROACH OIS FOR THE RUNWAY INDICATED IN THE OBSTRUCTION REFERENCE (SEE FIELD 70).

IF POSSIBLE VESSEL OBSTRUCTION IS INDICATED, USER IS ADVISED TO CONTACT LOCAL AUTHORITIES FOR MAXIMUM VESSEL HEIGHT, FREQUENCY OF PASSAGE, TRAVEL LIMITS, AND OTHER PERTINENT INFORMATION.

73. LATITUDE/F10.2/33-42

74. LONGITUDE/F11.2/44-54

75. ACCURACY CODE/A2/56-57

HORIZONTAL (FT)	VERTICAL (FT)
1 = 20	A = 3
2 = 50	B = 10
3 = 100	C = 20
	D = 50
	M = ESTIMATED MAXIMUM ELEVATION*

* AN ESTIMATED MAXIMUM ELEVATION IS PROVIDED WHEN THE ELEVATION OF AN OBJECT CANNOT BE DETERMINED PRECISELY, AS WITH MOBILE OBJECTS.

76. OBJECT ORTHOMETRIC (MSL) ELEVATION/I5/59-63

77. OBJECT ELLIPSOIDAL ELEVATION/I5/65-69

78. ABOVE GROUND LEVEL (AGL) ELEVATION/I5/71-75

AGL VALUES ARE NORMALLY PROVIDED ONLY FOR REPRESENTATIVE MANMADE OBSTRUCTIONS THAT ARE EQUAL TO OR GREATER THAN 200 FEET AGL.

79. HEIGHT ABOVE RUNWAY PHYSICAL END/I5/77-81

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

80. HEIGHT ABOVE TOUCHDOWN ZONE ELEVATION/I5/83-87

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

81. HEIGHT ABOVE AIRPORT/I5/89-93

82. DISTANCE MEASURED ALONG RUNWAY CENTERLINE EXTENDED FROM RUNWAY PHYSICAL END TO A POINT ABEAM OBJECT/I6/95-100

A NEGATIVE DISTANCE INDICATES THAT THE OBJECT IS ON THE TOUCHDOWN SIDE OF THE RUNWAY APPROACH END.

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

83. DISTANCE MEASURED ALONG RUNWAY CENTERLINE EXTENDED FROM DISPLACED THRESHOLD TO A POINT ABEAM OBJECT/I6/102-107

A NEGATIVE DISTANCE INDICATES THAT THE OBJECT IS ON THE TOUCHDOWN SIDE OF THE DISPLACED THRESHOLD.

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

84. DISTANCE FROM RUNWAY CENTERLINE/A6/109-114

SHORTEST DISTANCE FROM THE RUNWAY CENTERLINE OR CENTERLINE EXTENDED TO THE OBJECT. "L" (LEFT) OR "R" (RIGHT) IS RELATIVE TO AN OBSERVER FACING FORWARD IN A LANDING AIRCRAFT.

AN ASTERISK (*) INDICATES THAT THIS OBJECT IS OUTSIDE, BUT WITHIN 50 FEET, OF THE OIS. THIS CONVENTION IS USED ONLY WITH FAR77 APPROACH AND PRIMARY SURFACES.

85. PENETRATION OF INDICATED SURFACE (FIELD 71)/I5/116-120

PENETRATIONS FOR OBJECTS NOTED WITH AN ASTERISK (*) IN FIELD 84 ARE THE APPROACH SURFACE PENETRATIONS IF THE OBJECT WERE MOVED PERPENDICULAR TO THE RUNWAY CENTERLINE, TO THE APPROACH SURFACE.

WHEN ONE OIS UNDERLIES ANOTHER, THE PENETRATION IS RELATIVE TO THE LOWER OIS.

86. VERIFICATION DATE/A7/122-128

SEE FIELD 6

87. HEIGHT ABOVE AIRPORT/I5/77-81

88. MAGNETIC HEADING FROM ARP/I5/83-87

FORMAT: DDDMM WHERE
DDD = DEGREES
MM = MINUTES

THIS DATA IS PROVIDED ONLY FOR HCT SURVEYS.

89. DISTANCE FROM ARP/I5/89-93

THIS DATA IS PROVIDED ONLY FOR HCT SURVEY.

90. PENETRATION OF HORIZONTAL, CONICAL, OR TRANSITION OIS /I5/95-99

91. VERIFICATION DATE/A7/101-107

SEE FIELD 6

92 - 99 INTENTIONALLY OMITTED

100. ADDITIONAL INFORMATION/A120/2-121