

4.0 NAVIGATION DATA - RECORD LAYOUT

ARINC 424 - 17 RECORD FORMAT

NDB NAVAID (DB)(PN) 4.1.3.1 PRIMARY	5.2	5.3	5.4	5.5	5.6	5.14	5.33	5.14	5.16	5.34	5.35	5.36	5.37					5.39			5.197	5.71					5.31	5.32				
	ST	CUST/AREA	SEC CODE	SUB CODE	ARPT IDENT	ICAO CODE	NDB IDENT	ICAO CODE	CONT NR	NDB FREQ	NDB CLASS	NDB LATITUDE	NDB LONGITUDE	MAG VAR	RESERVED	DATUM CODE	NDB NAVAID NAME (30)	FILE RECORD NUMBER	CYCLE													
NOTES:																																
NDB NAVAID (DB)(PN) 4.1.3.2 CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.61										5.31	5.32								
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)										RESERVED (31)					FILE RECORD NUMBER	CYCLE			
NOTES:																																
NDB NAVAID (DB)(PN) 4.1.3.3 SIMULATION CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91											5.93			5.92	5.31	5.32				
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE											FAC CHAR			FAC ELEV	RESERVED (39)					FILE RECORD NUMBER
NOTES:																																
NDB NAVAID (DB)(PN) 4.1.3.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.116	5.116	5.152	5.153															5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE	FIR IDENT	UIR IDENT	S/E IND	START/END DATE	RESERVED (80)					FILE RECORD NUMBER	CYCLE									
NOTES:																																
NDB NAVAID (DB)(PN) 4.1.3.5 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.1.3.1)																	5.31	5.32		
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	CONTINUATION RECORD SAME AS PRIMARY RECORD (4.1.3.1)																	FILE RECORD NUMBER	CYCLE		
NOTES:																																

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WAYPOINT (EA)(PC) 4.1.4.1 PRIMARY	5.2	5.3	5.4	5.5	5.41	5.14	5.5	5.13	5.14	5.16	5.16	5.42	5.82	5.36	5.37	5.39	5.XX X	5.197	5.196	5.43	5.31	5.32											
	ST	CUST/AREA	SEC CODE	SUB CODE	REGN /ARPT CODE	ICAO CODE	SUB CODE	WAYPOINT IDENT	ICAO CODE	CONTNR	TYPE	USAGE	LATITUDE	LONGITUDE	D MAG VAR	WP ELEV (REST FOR SIM)	DATUM CODE	NAME IND	NAME/DESC (25)	FILE RECORD NUMBER	CYCLE												
NOTES:																																	
WAYPOINT (EA)(PC) 4.1.4.2 CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.61											5.31	5.32								
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)										RESERVED (31)										FILE RECORD NUMBER
NOTES:																																	
WAYPOINT (EA)(PC) 4.1.4.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.116	5.116	5.152	5.153											5.31	5.32					
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE	FIR IDENT	UIR IDENT	S/E IND	START/END DATE	RESERVED (80)										FILE RECORD NUMBER	CYCLE					
NOTES:																																	
WAYPOINT (EA)(PC) 4.1.4.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.1.4.1)										5.31	5.32										
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	CONTINUATION RECORD SAME AS PRIMARY RECORD (4.1.4.1)										FILE RECORD NUMBER	CYCLE										
NOTES:																																	
HOLDING PATTERN (EP) 4.1.5.1 PRIMARY	5.2	5.3	5.4	5.5	5.41	5.14	5.114	5.13	5.14	5.4	5.4	5.5	5.16	5.62	5.63	5.64	5.66	5.30	5.127	5.175	5.211	5.204	5.60	5.31	5.32								
	ST	CUST/AREA	SEC CODE	SUB CODE	REGN CODE	ICAO CODE	DUP IDENT	FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	CONTNR	IB HOLD CRS	TURN DIR	LEG LENGTH	LEG TIME	MINIMUM ALTITUDE	MAXIMUM ALTITUDE	HOLD SPEED	RNP	ARC RADIUS	RESERVED (27)	NAME (25)	FILE RECORD NUMBER	CYCLE								
NOTES:																																	
HOLDING PATTERN (EP) 4.1.5.2 CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.61											5.31	5.32								
	CONTINUATION RECORD SAME AS ABOVE										CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)										RESERVED (14)										FILE RECORD NUMBER
NOTES:																																	

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ENROUTE AIRWAYS (ER) 4.1.6.1 PRIMARY	5.2	5.3	5.4	5.5	5.8	5.12	5.13	5.14	5.4	5.5	5.16	5.17	5.18	5.19	5.15	5.14	5.23	5.14	5.211	5.24	5.25	5.26	5.27	5.28	5.30	5.30	5.127	5.254	5.31	5.32								
	SIT	CUST/AREA	SEC CODE	SUB CODE	ROUTE IDENT	SIX CHAR	SEQ NR	FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	CONT NR	DESC CODE	BOY CODE	RTY TYPE	LEVEL	DIRECT	TC IND	EL IND	RECD VHF	ICAO CODE	RNP	THETA	RHO	OB MAG CRS	ROUTE FROM DIST	IB MAG CRS	MIN ALTITUDE	MIN ALTITUDE	MAX ALTITUDE	FIX RADIUS	RESERVED (22)	FILE RECORD NUMBER	CYCLE				
NOTES:																																						
ENROUTE AIRWAYS (ER) 4.1.6.2 CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	5.61														5.31	5.32										
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)														RESERVED (14)	FILE RECORD NUMBER	CYCLE								
NOTES:																																						
ENROUTE AIRWAYS (ER) 4.1.6.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	5.152	5.153	5.14				5.128	5.129	5.130	5.14	5.128	5.129	5.130	5.14	5.128	5.129	5.130	5.14	5.128	5.129	5.130	5.14	5.128	5.31	5.32	
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	S/E IND	START/END DATE	ICAO CODE				RESTRICTIVE AIRSPACE DESIGNATION	MULTICD	ICAO CODE	REST TYPE	RESTRICTIVE AIRSPACE DESIGNATION	MULTICD	ICAO CODE	REST TYPE	RESTRICTIVE AIRSPACE DESIGNATION	MULTICD	ICAO CODE	REST TYPE	RESTRICTIVE AIRSPACE DESIGNATION	MULTICD	LK CONT	FILE RECORD NUMBER	CYCLE			
NOTES:																																						
ENROUTE AIRWAYS (ER) 4.1.6.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.1.6.1)																								5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	CONTINUATION RECORD SAME AS PRIMARY RECORD (4.1.6.1)																								FILE RECORD NUMBER	CYCLE
NOTES:																																						
AIRPORT (PA) 4.1.7.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.107	5.16	5.73	5.54	5.108	5.249	5.36	5.37	5.39	5.55	5.72	5.23	5.14	5.53	5.53	5.177	5.178	5.179	5.165	5.197	5.71	5.31	5.32									
	SIT	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	ATA/IATA	RESERVED	CONT NR	SPEED LIMIT ALTITUDE	LONGEST RWY	IIFR	LONG RWY	LATITUDE	LONGITUDE	MAG VAR	ELEV	SPEED LIMIT	RECD VHF	ICAO CODE	TRANS ALTITUDE	TRANS LEVEL	PUB/MIL	TIME ZONE	DAY TIME	MIT IND	DATUM CODE	RESVD (4)	AIRPORT NAME (30)	FILE RECORD NUMBER	CYCLE							
NOTES:																																						
AIRPORT (PA) 4.1.7.2 CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	5.91	5.31																								5.32
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)														RESERVED (59)	FILE RECORD NUMBER	CYCLE								
NOTES:																																						
AIRPORT (PA) 4.1.7.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	5.91	5.116	5.116	5.152	5.153	5.217														5.6	5.14	5.31	5.32			
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	APPL TYPE	FIR IDENT	UIR IDENT	S/E IND	START/END DATE	RESERVED (23)	AS IND	AS ARPT IDENT	AS ICAO CODE	RESERVED (50)	FILE RECORD NUMBER	CYCLE														
NOTES:																																						
AIRPORT (PA) 4.1.7.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE											5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.1.7.1)																								5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE											CONT NR	CONTINUATION RECORD SAME AS PRIMARY RECORD (4.1.7.1)																								FILE RECORD NUMBER	CYCLE
NOTES:																																						

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AIRPORT GATE (PB) 4.1.8.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.56	5.16	5.36	5.37	5.XXX	5.60	5.31	5.32
	ST	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	GATE IDENT	CONT NR	LATITUDE	LONGITUDE	MAG HDG RESV FOR SIM	RESERVED (43)	NAME (25)	FILE RECORD NUMBER

NOTES:

AIRPORT GATE (PB) 4.1.8.2 CONTINUATION	SAME PARAGRAPH AS ABOVE												5.16	5.91	5.61	5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE												CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)	RESERVED (31)	FILE RECORD NUMBER

NOTES:

AIRPORT SIDS/STARS/APPROACH (PD/PE/PF) 4.1.9.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.9 & 5.10	5.7	5.11	5.12	5.13	5.14	5.5	5.17	5.20	5.21	5.21	5.22	5.23	5.14	5.204	5.24	5.25	5.26	5.27	5.4	5.5	5.29	5.81	5.30	5.30	5.53	5.72	5.70	5.144 or 5.271	5.130 or 5.272	5.14	5.4	5.5	5.5	5.22	5.22	5.22	5.22	5.7	5.7	5.31	5.32					
	ST	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	SID/STAR/APP IDENT	RTTYPE	TRANS IDENT	SEQ NR	FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	CONT NR	DESC CODE	TURN DR	RNP	PATH TERM	TDV	RECD NAVAID	ICAO CODE	ARC RADIUS	THETA	RHO	MAG CRS	RTE DIST HOLD DIST/TIME	SEC CODE	SUB CODE	ALT DESC	ATC	ALTITUDE	ALTITUDE	TRANS ALTITUDE	SPEED LIMIT	VERT ANGLE	CENTER FIX OR TAA PT	MULTI CD	ICAO CODE	SEC CODE	SUB CODE	SUB CODE	SUB CODE	SUB CODE	SUB CODE	SUB CODE	SUB CODE	SUB CODE	RTE QUAL	RTE QUAL	RTE QUAL	RTE QUAL	FILE RECORD NUMBER

NOTES:

AIRPORT SIDS/STARS/APPROACH (PD/PE/PF) 4.1.9.2 CONTINUATION	SAME PARAGRAPH AS ABOVE												5.16	5.91	5.170	5.170	5.170	5.170	5.171	5.171	5.171	5.171	5.171	5.171	5.67	5.29	5.30	5.70	5.211	5.31	5.32		
	CONTINUATION RECORD SAME AS ABOVE												CONT NR	APPL TYPE	CAT A DH	CAT B DH	CAT C DH	CAT D DH	CAT A MDH	CAT B MDH	CAT C MDH	CAT D MDH	TCH	ALT DESC	LOC ALTITUDE	VERT ANGLE	RNP	RESERVED (26)	RTE QUAL	RTE QUAL	RTE QUAL	RTE QUAL	FILE RECORD NUMBER

NOTES:

AIRPORT SIDS/STARS/APPROACH (PD/PE/PF) 4.1.9.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE												5.16	5.91	5.152	5.153	5.260	5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE												CONT NR	APPL TYPE	S/E IND	START/END DATE	LEG DISTANCE	RESERVED (45)	FILE RECORD NUMBER

NOTES:

AIRPORT SIDS/STARS/APPROACH (PD/PE/PF) 4.1.9.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE												5.16	5.91	5.152	5.153	5.260	5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE												CONT NR	APPL TYPE	S/E IND	START/END DATE	LEG DISTANCE	RESERVED (45)	FILE RECORD NUMBER

NOTES:

AIRPORT PROCEDURE DATA CONTINUATION RECORD 4.1.9.5 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE												5.16	5.91	5.276	5.275	5.276	5.275	5.275	5.275	5.31	5.32	
	CONTINUATION RECORD SAME AS ABOVE												CONT NR	APPL TYPE	FAS BLOCK	FAS BLOCK PROVIDED LEVEL OF SERVICE NAME	LNAV/VNAV	LNAV/VNAV LEVEL OF SERVICE NAME	LNAV/VNAV	LNAV/VNAV LEVEL OF SERVICE NAME	APPL TYPE Q1	APPL TYPE Q2	FILE RECORD NUMBER

NOTES:

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RUNWAY (PG) 4.1.10.1 PRIMARY		5.2	5.3	5.4	5.6	5.14	5.5	5.46	5.16	5.57	5.58	5.36	5.37	5.212	5.225	5.68	5.69	5.67	5.109	5.270	5.44	5.80	5.79	5.44	5.80	5.59	5.31	5.32																						
		SIT	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	RUNWAY IDENT	CONT NR	RUNWAY LENGTH	RUNWAY BEARING	LATITUDE	LONGITUDE	RWY GRAD	(LTP) ELLIPSOID HEIGHT	LNDG THRES ELEV	DSPLCD THR	TCH	WIDTH	TCH	LOC/MLS/ GLS IDENT	STOPWAY	SEC LOC/ MLS/GLS IDENT	CAT/CLASS	RESERVED	RUNWAY DESCRIPTION (22)	FILE RECORD NUMBER	CYCLE																						
NOTES:																																																		
RUNWAY (PG) 4.1.10.2 CONTINUATION		SAME PARAGRAPH AS ABOVE																		5.16	5.91	5.61										5.31	5.32																	
		CONTINUATION RECORD SAME AS ABOVE																		CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)										RESERVED (31)					FILE RECORD NUMBER	CYCLE												
NOTES:																																																		
RUNWAY (PG) 4.1.10.3 SIMULATION CONTINUATION		SAME PARAGRAPH AS ABOVE																		5.16	5.91	5.94										5.95	5.98	5.97											5.31	5.32				
		CONTINUATION RECORD SAME AS ABOVE																		CONT NR	APPL TYPE	TRUE BEARING										SOURCE	LOCATION	TDZ ELEV	RESERVED (52)					FILE RECORD NUMBER	CYCLE									
NOTES:																																																		
AIRPORT & HELIPORT LOCALIZER & G.S. (PI) 4.1.11.1 PRIMARY		5.2	5.3	5.4	5.6	5.14	5.5	5.44	5.80	5.16	5.45	5.46	5.36	5.37	5.47	5.36	5.37	5.48	5.49	5.50	5.51	5.52	5.66	5.67	5.74	5.33	5.14	5.4	5.5	5.59	5.31	5.32																		
		SIT	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	LOC IDENT	CAT	CONT NR	FREQ	RUNWAY IDENT	LOC LATITUDE	LOC LONGITUDE	LOC BRG	G.S. LATITUDE	G.S. LONGITUDE	LOC FR RW END	+/-@	G.S. FR RW THRES	LOC WIDTH	G.S. ANGLE	STA DECL	TCH	G.S. ELEV	SUPPORT FACILITY	ICAO CODE	SEC CODE	SUB CODE	RESERVED (13)	FILE RECORD NUMBER	CYCLE																		
NOTES:																																																		
AIRPORT & HELIPORT LOCALIZER & G.S. (PI) 4.1.11.2 CONTINUATION		SAME PARAGRAPH AS ABOVE																		5.16	5.91	5.61										5.31	5.32																	
		CONTINUATION RECORD SAME AS ABOVE																		CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)										RESERVED (31)					FILE RECORD NUMBER	CYCLE												
NOTES:																																																		
AIRPORT & HELIPORT LOCALIZER & G.S. (PI) 4.1.11.3 SIMULATION CONTINUATION		SAME PARAGRAPH AS ABOVE																		5.16	5.91	5.93										5.94	5.95	5.96										5.10	5.10	5.10	5.10	5.10	5.31	5.32
		CONTINUATION RECORD SAME AS ABOVE																		CONT NR	APPL TYPE	FAC CHAR										TRUE BEARING	SOURCE	G.S. BEAM WIDTH					APP IDENT 1	APP IDENT 2	APP IDENT 3	APP IDENT 4	APP IDENT 5	FILE RECORD NUMBER	CYCLE					
NOTES:																																																		
COMPANY ROUTE (R) 4.1.12.1 PRIMARY		5.2	5.3	5.4	5.5	5.75	5.14	5.4	5.5	5.75	5.14	5.4	5.5	5.76	5.12	5.77	5.78	5.3	5.83	5.14	5.4	5.5	5.84	5.85	5.86	5.87	5.14	5.88	5.89	5.148	5.31	5.32																		
		SIT	CUST/AREA	SEC CODE	FROM ARPT/FIX	ICAO CODE	SUB CODE	FROM ARPT/FIX	ICAO CODE	SUB CODE	COMPANY ROUTE ID	SEQ NO.	VIA	S/S/A AWY	AREA	TO FIX	ICAO CODE	SEC CODE	SUB CODE	RUNWAY TRANS	ENRT TRANS	CRUISE ALTITUDE	TERM/ALT ARPT	ICAO CODE	ALT DIST	COST INDEX	ENRT ALT ARPT	RESERVED (29)	FILE RECORD NUMBER	CYCLE																				
NOTES:																																																		

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AIRPORT & HELIPORT LOCALIZER MARKERS/ LOCALATORS (PM) 4.1.13.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.44	5.99	5.16	5.34	5.46	5.36	5.37	5.100	5.36	5.37	5.35	5.93	5.33	5.39	5.92	5.31	5.32
	SIT	CUST/ AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	LOC IDENT	MKR TYPE	CONT NR	LCTR FREQ	RUNWAY IDENT	MKR LATITUDE	MKR LONGITUDE	MINOR AXIS TRUE BRG	LOCATOR LATITUDE	LOCATOR LONGITUDE	LCTR CLASS	LCTR FAC CHAR	LCTR IDENT	MAG VAR	FAC ELEV	RESERVED (21)	FILE RECORD NUMBER

NOTES:

AIRPORT & HELIPORT LOCALIZER (PM) 4.1.13.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																					FILE RECORD NUMBER	CYCLE

NOTES:

AIRPORT COMM (PV) 4.1.14.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.101	5.103	5.182	5.104	5.16	5.106	5.102	5.198	5.199	5.36	5.37	5.39	5.92	5.181	5.183	5.29	5.184	5.184	5.185	5.14	5.5	5.187	5.188	5.200	5.14	5.4	5.5	5.105	5.31	5.32
	SIT	CUST/ AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	COMM TYPE	COMM FREQ	G/T	FREQ UNIT	CONT NR	SERV IND	RADAR MODULAT	SIG EM	LATITUDE	LONGITUDE	MAG VAR	FAC ELEV	H24 IND	SECTOR	ALT DESC	ALTITUDE 1	ALTITUDE 2	SECTOR FAC	ICAO CODE	SEC CODE	SUB CODE	DIST DESC	COMM DIST	REMOTE FAC	ICAO CODE	SEC CODE	SUB CODE	CALL SIGN (25)	FILE RECORD NUMBER	CYCLE

NOTES:

AIRPORT COMM (PV) 4.1.14.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																					FILE RECORD NUMBER	CYCLE

NOTES:

AIRPORT COMM (PV) 4.1.14.3 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																					FILE RECORD NUMBER	CYCLE

NOTES:

AIRWAY MARKERS (EM) 4.1.15.1 PRIMARY	5.2	5.3	5.4	5.5	5.110	5.14	5.16	5.111	5.112	5.113	5.36	5.37	5.100	5.39	5.92	5.197	5.71	5.31	5.32
	SIT	CUST/ AREA	SEC CODE	SUB CODE	MARKER IDENT	ICAO CODE	CONT NR	MARKER CODE	SHAPE	HI LOW	LATITUDE	LONGITUDE	MINOR AXIS TRUE BRG	RESERVED (19)	MAG VAR	FAC ELEV	DATUM CODE	MARKER NAME (30)	FILE RECORD NUMBER

NOTES:

AIRWAYS MARKER 4.1.15.2 (EM) CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																					FILE RECORD NUMBER	CYCLE

NOTES:

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AIRPORT MINIMUM SECTOR ALTITUDE (MSA) (PS) 4.1.20.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.144	5.14	5.4	5.5	5.130	5.16	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.165	5.31	5.32																			
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																				
AIRPORT MINIMUM SECTOR ALTITUDE (MSA) (PS) 4.1.20.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.61																5.31	5.32												
	CONTINUATION RECORD SAME AS ABOVE			CONT NMR											NOTES ON CONTINUATION RECORD (69)											RESERVED (14)				FILE RECORD NUMBER	CYCLE																					
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21.1 ALTITUDE EXCLUSION PRIMARY	5.2	5.3	5.4	5.5	5.8	5.154	5.201	5.16	5.13	5.14	5.4	5.5	5.13	5.14	5.4	5.5	5.157	5.157	5.131	5.138	5.195	5.195	5.195	5.195	5.202	5.160	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.31	5.32												
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21A.1 NOTE RESTRICTION PRIMARY	5.2	5.3	5.4	5.5	5.8	5.154	5.201	5.16	5.13	5.14	5.4	5.5	5.13	5.14	5.4	5.5	5.157	5.157	5.131	5.138	5.195																5.31	5.32														
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21A.2 NOTE RESTRICTION CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.63																5.31	5.32												
	CONTINUATION RECORD SAME AS ABOVE			CONT NMR											RESTRICTION NOTES (69)											RESERVED (32)				FILE RECORD NUMBER	CYCLE																					
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21B.1 SEASONAL CLOSURE PRIMARY	5.2	5.3	5.4	5.5	5.8	5.154	5.201	5.16	5.13	5.14	5.4	5.5	5.13	5.14	5.4	5.5	5.157	5.157	5.131	5.138	5.195	5.195	5.195	5.195	5.134											5.31	5.32															
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21C.1 CRUISE TABLE REPLACEMENT PRIMARY	5.2	5.3	5.4	5.5	5.8	5.154	5.201	5.16	5.13	5.14	5.4	5.5	5.13	5.14	5.4	5.5	5.157	5.157	5.131	5.138	5.195	5.195	5.195	5.195	5.134											5.31	5.32															
	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21C.2 CRUISE TABLE REPLACEMENT CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.131	5.138	5.195	5.195	5.195	5.195	5.134											5.31	5.32											
	CONTINUATION RECORD SAME AS ABOVE			CONT NMR											RESERVED (32)															FILE RECORD NUMBER	CYCLE																					
NOTES:																																																				
ENROUTE AIRWAYS RESTRICTION RECORDS (EU) 4.1.21.2 ALTITUDE EXCLUSION CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.131	5.138	5.195	5.195	5.195	5.195	5.202	5.160	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.161	5.203	5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE			CONT NMR											RESERVED (32)															FILE RECORD NUMBER	CYCLE																					
NOTES:																																																				

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4.0 NAVIGATION DATA - RECORD LAYOUT

AIRPORT & HELIPORT MLS (PL) 4.1.22.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.44	5.80	5.16	5.166	5.46	5.36	5.37	5.167	5.36	5.37	5.167	5.49	5.50	5.168	5.168	5.172	5.172	5.169	5.39	5.74	5.173	5.52	5.33	5.14	5.4	5.5	5.31	5.32																					
	SIT	CUST/ AREA	SEC CODE SUB CODE	ARPT IDENT	ICAO CODE SUB CODE	MLS IDENT	CAT	CONT NR	CHANNEL	RUNWAY IDENT	AZ LATITUDE	AZ LONGITUDE	MLS AZ BRG	EL LATITUDE	EL LONGITUDE	AZ FR RWY END	+/-@	EL FR RWY THR	AZ PRO RIGHT	AZ PRO LEFT	AZ COV RIGHT	AZ COV LEFT	EL ANGLE SPAN	MAG VAR	EL ELEV	NOM ELEV ANGLE	MIN ELEV ANGLE	FAC IDEN	ICAO CODE SUB CODE	SEC CODE SUB CODE	FILE RECORD NUMBER	CYCLE																							
NOTES:																																																							
AIRPORT & HELIPORT MLS (PL) 4.1.22.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																									5.16	5.91	5.93	5.36	5.37	5.167	5.36	5.37	5.167	5.49	5.168	5.168	5.172	5.172	5.94	5.95	5.94	5.95	5.67							5.31	5.32			
	CONTINUATION RECORD SAME AS ABOVE																									CONT NR	APPL TYPE	FAC CHAR	BAZ LATITUDE	BAZ LONGITUDE	MLS BAZ BRG	MLS DP LATITUDE	MLS DP LONGITUDE	BAZ FR RWY END	+/-@	BAZ PRO RIGHT	BAZ PRO LEFT	BAZ COV RIGHT	BAZ COV LEFT	BAZ TRUE BRG	SOURCE	AZ TRUE BRG	SOURCE	TCH	RESERVED (14)							FILE RECORD NUMBER	CYCLE		
NOTES:																																																							
ENROUTE COMM (EV) 4.1.23.1 PRIMARY	5.2	5.3	5.4	5.5	5.190	5.151	5.117	5.189	5.101	5.103	5.182	5.104	5.106	5.102	5.198	5.199	5.36	5.37	5.39	5.92	5.181	5.29	5.184	5.184	5.200	5.14	5.4	5.5	5.31	5.32																									
	SIT	CUST/ AREA	SEC CODE SUB CODE	FIR/RDO IDENT	FIR/RDO ADDRESS	IND	REMOTE SITE NAME (25)	COMM TYPE	COMM FREQ	G/T	FREQ UNIT	CONT NR	SERV IND	RADAR MODULAT	SIG EN	LATITUDE	LONGITUDE	MAG VAR	FAC ELEV	H/4 IND	ALT DESC	ALTITUDE 1	ALTITUDE 2	REMOTE FAC	ICAO CODE SUB CODE	SEC CODE SUB CODE	RESERVED (12)	FILE RECORD NUMBER	CYCLE																										
NOTES:																																																							
ENROUTE COMM (EV) 4.1.23.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																									5.16	5.91	5.131	5.132	5.138	5.195											5.31	5.32												
	CONTINUATION RECORD SAME AS ABOVE																									CONT NR	APPL TYPE	TIME CD	NOTAM	TIME IND	TIME OF OPERATION	RESERVED (23)											CALL SIGN (30)	FILE RECORD NUMBER	CYCLE										
NOTES:																																																							
ENROUTE COMM (EV) 4.1.23.3 CONTINUATION	SAME PARAGRAPH AS ABOVE																									5.16	5.91	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195											5.31	5.32							
	CONTINUATION RECORD SAME AS ABOVE																									CONT NR	APPL TYPE	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	RESERVED (1)	FILE RECORD NUMBER	CYCLE																		
NOTES:																																																							
PREFERRED ROUTES (ET) 4.1.24.1 PRIMARY	5.2	5.3	5.4	5.5	5.8	5.220	5.12	5.16	5.83	5.14	5.4	5.5	5.77	5.78	5.3	5.19	5.7	5.194	5.14	5.4	5.5	5.194	5.14	5.4	5.5	5.30	5.127	5.131	5.221	5.115	5.29	5.30	5.30							5.31	5.32														
	SIT	CUST/ AREA	SEC CODE SUB CODE	ROUTE IDENT	USE IND	SEQ NR	CONT NR	TO FIX IDENT	ICAO CODE SUB CODE	VIA	SID/STAR/AWY IDENT	CUST/ AREA	LEVEL	RTE TYPE	INT APT/ FIX	ICAO CODE SUB CODE	TERM APT/ FIX	ICAO CODE SUB CODE	MIN ALTITUDE	MAX ALTITUDE	TIME CD	ACFT USE GROUP	DIRECT	ALT DESC	ALTITUDE ONE	ALTITUDE TWO	RESERVED (18)	FILE RECORD NUMBER	CYCLE																										
NOTES:																																																							
PREFERRED ROUTES (ET) 4.1.24.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																									5.16	5.91	5.131	5.132	5.138	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.195							5.31	5.32			
	CONTINUATION RECORD SAME AS ABOVE																									CONT NR	APPL TYPE	TIME CD	TIME IND	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	RESERVED (11)	FILE RECORD NUMBER	CYCLE															
NOTES:																																																							
PREFERRED ROUTES (ET) 4.1.24.3 CONTINUATION	SAME PARAGRAPH AS ABOVE																									5.16	5.91	5.61																										5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																									CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)	RESERVED (14)	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																							

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CONTROLLED AIRSPACE (UC) 4.1.25.1 PRIMARY	5.2	5.3	5.4	5.5	5.14	5.213	5.214	5.4	5.5	5.215	5.130	5.12	5.16	5.19	5.132	5.118	5.36	5.37	5.36	5.37	5.119	5.120	5.211	5.121	5.133	5.121	5.133	5.216	5.31	5.32																								
	SJT	CUST/AREA	SEC CODE	SUB CODE	ICAO CODE	ARSP TYPE	AIRSPACE CENTER	SEC CODE	SUB CODE	AS CLASS	MULTICD	SEQ NR	CONT NR	LEVEL	TIME CD	NOTAM	BDRY VIA	LATITUDE	LONGITUDE	ARC ORIGIN LATITUDE	ARC ORIGIN LONGITUDE	ARC DIST	ARC BRG	RNP	LOWER LIMIT	UNIT IND	UPPER LIMIT	UNIT IND	CONTROLLED AIRSPACE NAME (30)	FILE RECORD NUMBER	CYCLE																							
NOTES:																																																						
CONTROLLED AIRSPACE (UC) 4.1.25.2 CONTINUATION	5.16	5.91	5.131	5.132	5.133	5.195	5.195	5.195	5.195	5.195	5.195	5.195	5.140	5.31	5.32																																							
	CONT NR	APPL TYPE	TIME CD	NOTAM	TIME IND	TIME OF OPERATIONS	TIME OF OPERATIONS	TIME OF OPERATIONS	TIME OF OPERATIONS	TIME OF OPERATIONS	TIME OF OPERATIONS	TIME OF OPERATIONS	CONTROLLING AGENCY (24)	FILE RECORD NUMBER	CYCLE																																							
NOTES:																																																						
GEOGRAPHICAL REFERENCE TABLE RECORDS (TG) 4.1.26.1 PRIMARY	5.2	5.3	5.4	5.5	5.218	5.12	5.219	5.16	5.8	5.220	5.8	5.220	5.8	5.220	5.8	5.220	5.8	5.220	5.8	5.220	5.220	5.31	5.32																															
	SJT	CUST/AREA	SEC CODE	SUB CODE	TABLE IDENT	SEQ NUM	GEOGRAPHICAL ENTITY	CONT NR	PREFERRED ROUTE IDENT	ET IND	PREFERRED ROUTE IDENT	ET IND	PREFERRED ROUTE IDENT	ET IND	PREFERRED ROUTE IDENT	ET IND	PREFERRED ROUTE IDENT	ET IND	PREFERRED ROUTE IDENT	ET IND	RESERVED (83)	FILE RECORD NUMBER	CYCLE																															
NOTES:																																																						
GEOGRAPHICAL REFERENCE TABLE RECORDS (TG) 4.1.26.2 CONTINUATION	5.16	5.91	5.31	5.32																																																		
	CONT NR	APPL TYPE	FILE RECORD NUMBER	CYCLE																																																		
NOTES:																																																						
FLIGHT PLANNING ARRIVAL/DEPARTURE (PR) 4.1.27.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.9	5.10	5.230	5.11	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.11	5.13	5.14	5.4	5.5	5.231	5.12	5.16	5.232	5.233	5.234	5.235	5.236	5.131	5.237	5.238	5.239	5.26	5.29	5.240	5.240	5.72	5.134	5.261	5.31	5.32								
	SJT	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	SID/STAR/APRCH IDENT	PROC TYPE	RUNWAY TRANS IDENT	RUNWAY TRANS FIX	ICAO CODE	SUB CODE	RUNWAY TRANS ATD	COMMON SEGMENT FIX	ICAO CODE	SUB CODE	COMN SEG ATD	ENROUTE TRANS IDENT	ENROUTE TRANS FIX	ICAO CODE	SUB CODE	ENRTE TRANS ATD	SEQ NR	CONT NR	NOE	TURBO	RWY	ATC WC	ATC IDENT	TIME CD	PROCEDURE DESCRIPTION	LTC	RPT	OB MAG CRS	ALT DESC	ALT	ALT	SPEED LIMIT	CRS TBL IDENT	SPD LIMIT	FILE RECORD NUMBER	CYCLE												
NOTES:																																																						
FLIGHT PLANNING ARRIVAL/DEPARTURE (PR) 4.1.27.2 CONTINUATION	5.16	5.91	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.13	5.14	5.4	5.5	5.231	5.31	5.32
	CONT NR	APPL TYPE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	ICAO CODE	SEC CODE	SUB CODE	ATD	FRT CODE	INTER FIX IDENT	FILE RECORD NUMBER	CYCLE	
NOTES:																																																						
FLIGHT PLANNING ARRIVAL/DEPARTURE (PR) 4.1.27.3 CONTINUATION	5.16	5.131	5.133	5.195	5.195	5.195	5.195	5.195	5.31	5.32																																												
	CONT NR	APPL TYPE	TIME CD	TIME IND	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	TIME OF OPERATION	FILE RECORD NUMBER	CYCLE																																											
NOTES:																																																						
PATH POINT (PP) 4.1.28.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.10	5.46 or 5.180	5.223	5.16	5.224	5.255	5.256	5.257	5.258	5.266	5.267	5.225	5.226	5.267	5.268	5.227	5.259	5.265	5.266	5.263	5.264	5.229	5.31	5.32																								
	SJT	CUST/AREA	SEC CODE	ARPT IDENT	ICAO CODE	SUB CODE	APPROACH IDENT	RUNWAY OR HELIPAD IDENT	OPS TYPE	CONT NR	RTI IND	SBAS SPI	REF PATH DATA SEL	REF PATH DATA IDENTIFIER	APP PD	LTP LATITUDE	LTP LONGITUDE	LTP ELLIPSOID HEIGHT	GPA	FPAP LATITUDE	FPAP LONGITUDE	COURSE WIDTH AT THRESHOLD	LENGTH OFFSET	PATH POINT TCH	TCH IND	HAL	VAL	CRS	FILE RECORD NUMBER	CYCLE																								
NOTES:																																																						
PATH POINT (PP) 4.1.28.2 CONTINUATION	5.16	5.91	5.225	5.227	5.227	5.262	5.244	5.269	5.31	5.32																																												
	CONT NR	APPL TYPE	FPAP ELLIPSOID HEIGHT	FPAP ORTHOMETRIC HEIGHT	LTP ORTHOMETRIC HEIGHT	APPROACH TYPE IDENT	GNSS CHANNEL NO.	HPC	RESERVED (49)	FILE RECORD NUMBER	CYCLE																																											
NOTES:																																																						

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GLS (PT) 4.1.29.1 PRIMARY	5.2 SIT	5.3 CUST/ AREA	5.4 SEC CODE	5.6 ARPT OR IDENT HEPT	5.14 ICAO CODE	5.5 SUB CODE	5.44 GLS REF PATH IDENT	5.80 GLS CAT	5.16 CONT NR	5.244 GLS CHANNEL	5.46 RUNWAY IDENT	5.47 GLS APP BEARING	5.36 STATION LATITUDE	5.37 STATION LONGITUDE	5.243 GLS IDENT	5.245 SVC VOL RADIUS	5.246 TDM	5.52 MIN ELEV ANG	5.39 MAG VAR	RESERVED	5.74 STATION ELEVATION	5.197 DATUM CODE	5.247 STATION TYPE	5.248 STATION ELEVATION (WGS-84)	5.31 FILE RECORD NUMBER	5.32 CYCLE										
GLS (PT) 4.1.29.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.16 CONT NR	5.31	5.32												
CONTINUATION RECORD SAME AS ABOVE																									5.16 APPL TYPE	RESERVED (100)	5.31 FILE RECORD NUMBER	5.32 CYCLE								
ALTERNATE RECORD (RA) 4.1.30.1 PRIMARY	5.2 SIT	5.3 CUST/ AREA	5.4 SEC CODE	5.5 SUB CODE	5.75 ALTERNATE/ RELATED ARPT OR FIX	5.14 ICAO CODE	5.5 SUB CODE	5.250 ART	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT ONE	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT TWO	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT THREE	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT FOUR	5.251 DTA	5.252 ALT TYPE	5.253 ALT IDENT FIVE	RESERVED EXPANSION	5.31 FILE RECORD NUMBER	5.32 CYCLE							
AIRPORT TAA (PK) 4.1.31.1 PRIMARY	5.2 SIT	5.3 CUST/ AREA	5.4 SEC CODE	5.6 ARPT IDENT	5.14 ICAO CODE	5.5 SUB CODE	5.10 APPROACH IDENT	5.272 TAA SI	5.271 TAA PROCEDURE TURN	5.273 TAA IAF WAYPOINT	5.14 ICAO CODE	5.4 SUB CODE	5.16 CONT NR	5.165 MT IND	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.274 SECTOR RADIUS	5.146 SECTOR BEARING	5.147 SECTOR MIN ALT	5.31 FILE RECORD NUMBER	5.32 CYCLE		
AIRPORT TAA (PK) 4.1.31.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.16 CONT NR	5.31	5.32												
CONTINUATION RECORD SAME AS ABOVE																									5.16 APPL TYPE	NOTES ON CONTINUATION RECORD (69)	RESERVED (14)	5.31 FILE RECORD NUMBER	5.32 CYCLE							
HELIPORT (HA) 4.2.1.1 PRIMARY	5.2 SIT	5.3 CUST/ AREA	5.4 SEC CODE	5.6 HEPT IDENT	5.14 ICAO CODE	5.5 SUB CODE	5.107 ATA/ IATA	5.180 PAD IDENT	5.16 CONT NR	5.73 SPEED LIMIT ALTITUDE	5.197 DATUM CODE	5.108 IFR	5.36 LATITUDE	5.37 LONGITUDE	5.39 MAG VAR	5.55 ELEV	5.72 SPEED LIMIT	5.23 RECD VHF	5.14 ICAO CODE	5.53 TRANS ALTITUDE	5.53 TRANS LEVEL	5.177 PUB/ MIL	5.178 TIME ZONE	5.179 DAY TIME	5.176 PAD DIMENSIONS	5.165 MT IND	RESERVED	5.71 HELIPORT NAME (30)	5.31 FILE RECORD NUMBER	5.32 CYCLE						
HELIPORT (HA) 4.2.1.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.16 CONT NR	5.31	5.32												
CONTINUATION RECORD SAME AS ABOVE																									5.16 APPL TYPE	NOTES ON CONTINUATION RECORD (69)	RESERVED (31)	5.31 FILE RECORD NUMBER	5.32 CYCLE							
HELIPORT (HA) 4.2.1.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.16 CONT NR	5.31	5.32												
CONTINUATION RECORD SAME AS ABOVE																									5.16 APPL TYPE	FIR IDENT	UIR IDENT	5.152 SE IND	START/END DATE	RESERVED (23)	5.217 AS IND	5.6 AS ARPT IND	5.14 AS ICAO CODE	RESERVED (50)	5.31 FILE RECORD NUMBER	5.32 CYCLE
HELIPORT (HA) 4.2.1.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE																					5.16 CONT NR	5.31	5.32												
CONTINUATION RECORD SAME AS ABOVE																									5.16 APPL TYPE	NOTES ON CONTINUATION RECORD (69)	RESERVED (31)	5.31 FILE RECORD NUMBER	5.32 CYCLE							

NOTES:

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HELICOPTER TERMINAL WAYPOINT (HC) 4.2.2.1 PRIMARY	5.2	5.3	5.4	5.41	5.14	5.5	5.13	5.14	5.16	5.82	5.36	5.37	/										5.39	5.XX X	5.197	/										5.196	5.43	/										5.31	5.32
	ST	CUST/AREA	SEC CODE	HELIPORT IDENT	ICAO CODE	SUB CODE	WAYPOINT IDENT	ICAO CODE	CONT NR	TYPE	USAGE	LATITUDE	LONGITUDE	D MAG VAR	WP ELEV (REST FOR SIM)	DATUM CODE	NAME IND	NAME/DESC (25)	FILE RECORD NUMBER	CYCLE																													
NOTES:																																																	
HELICOPTER TERMINAL WAYPOINT (HC) 4.2.2.2 CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.61	/										/										5.31	5.32														
	CONT NR	APPL TYPE	CONTINUATION RECORD SAME AS ABOVE										NOTES ON CONTINUATION RECORD (69)										RESERVED (31)										FILE RECORD NUMBER	CYCLE															
NOTES:																																																	
HELICOPTER TERMINAL WAYPOINT (HC) 4.2.2.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.116	5.116	5.152	5.153	/										/										5.31	5.32											
	CONT NR	APPL TYPE	CONTINUATION RECORD SAME AS ABOVE										FIR IDENT	UIR IDENT	SE IND	START/END DATE	RESERVED (80)										FILE RECORD NUMBER	CYCLE																					
NOTES:																																																	
HELICOPTER TERMINAL WAYPOINT (HC) 4.2.2.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.2.2.1)										/										5.31	5.32																
	CONT NR	CONTINUATION RECORD SAME AS ABOVE										CONTINUATION RECORD SAME AS PRIMARY RECORD (4.2.2.1)										FILE RECORD NUMBER	CYCLE																										
NOTES:																																																	
HELIPORT SIDS/STARS/APPROACH (HD/HE/HF) 4.2.3.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.9 & 5.10	5.7	5.11	5.12	5.13	5.14	5.5	5.16	5.17	5.20	5.211	5.21	5.22	5.23	5.14	5.204	5.24	5.25	5.26	5.27	5.4	5.5	5.29	5.81	5.30	5.30	5.53	5.72	5.70	5.271 or 5.144	5.130 or 5.272	5.14	5.4	5.5	5.22	5.261	5.7	5.31	5.32				
	ST	CUST/AREA	SEC CODE	HELIPORT IDENT	ICAO CODE	SUB CODE	SID/STAR/APP IDENT	RT TYPE	TRANS IDENT	SEQ NR	FIX IDENT	ICAO CODE	SEC CODE	CONT NR	DESC CODE	TURNDIR	RNP	PATH TERM	IDV	RECD NAV AID	ICAO CODE	ARC RADIUS	THETA	RHO	MAG CRS	RTE DIST HOLD	DIST/TIME	SEC CODE	SUB CODE	RESERVED	ALT DESC	ATC	ALTITUDE	ALTITUDE	TRANS ALTITUDE	SPEED LIMIT	VERT ANGLE	CENTER FIX or TAA PROC	TURN IND	MULTICD	ICAO CODE	SEC CODE	SUB CODE	GNSSTYPE	SPO LIMIT	RTE QUAL	RTE QUAL	FILE RECORD NUMBER	CYCLE
NOTES:																																																	
HELIPORT SIDS/STARS/APPROACH (HD/HE/HF) 4.2.3.2 CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.170	5.170	5.170	5.170	5.171	5.171	5.171	5.171	5.171	5.67	5.29	5.30	5.70	/										5.211	/										5.31	5.32	
	CONT NR	APPL TYPE	CONTINUATION RECORD SAME AS ABOVE										CAT A DH	CAT B DH	CAT C DH	CAT D DH	CAT A MDH	CAT B MDH	CAT C MDH	CAT D MDH	PROC TCH	ALT DESC	LOC ALT	LOC VNAV	RNP	RESERVED (26)										RTE QUAL	RTE QUAL	FILE RECORD NUMBER	CYCLE										
NOTES:																																																	
HELIPORT SIDS/STARS/APPROACH (HD/HE/HF) 4.2.3.3 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.152	5.153	/										5.27	/										5.31	5.32												
	CONT NR	APPL TYPE	CONTINUATION RECORD SAME AS ABOVE										SE IND	START/END DATE	/										RTE DIST	RESERVED (45)										FILE RECORD NUMBER	CYCLE												
NOTES:																																																	
HELIPORT SIDS/STARS/APPROACH (HD/HE/HF) 4.2.3.4 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	SAME PARAGRAPH AS PRIMARY RECORD (4.2.3.1)										/										5.31	5.32																
	CONT NR	CONTINUATION RECORD SAME AS ABOVE										CONTINUATION RECORD SAME AS PRIMARY RECORD (4.2.3.1)										FILE RECORD NUMBER	CYCLE																										
NOTES:																																																	
HELIPORT PROCEDURE DATA CONTINUATION RECORD 4.2.3.5 FLIGHT PLANNING CONTINUATION	SAME PARAGRAPH AS ABOVE										5.16	5.91	5.276	5.275	5.276	5.275	5.276	5.275	/										/										5.31	5.32									
	CONT NR	APPL TYPE	CONTINUATION RECORD SAME AS ABOVE										FAS BLOCK PROVIDED	LEVEL OF SERVICE NAME	LNAV/VNAV	LNAV/VNAV LEVEL OF SERVICE NAME	LNAV/VNAV	LNAV/VNAV LEVEL OF SERVICE NAME	/										RTE QUAL	RTE QUAL	FILE RECORD NUMBER	CYCLE																	
NOTES:																																																	

4.0 NAVIGATION DATA - RECORD LAYOUT

HELIPORT MINIMUM SECTOR ALTITUDE (MSA) (HS) 4.2.4.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.144	5.14	5.4	5.5	5.130	5.16	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.146	5.147	5.145	5.165	5.31	5.32		
	CUST/	AREA	SEC CODE	ARPT	ICAO	SUB CODE	MSA	CENTER	ICAO	CODE	SUB CODE	MULTI CD	RESERVED (15)	SEC	BRG	SEC	ALT	SEC	RAD	SEC	BRG	SEC	ALT	SEC	RAD	SEC	BRG	SEC	ALT	SEC	RAD	SEC	BRG	SEC	ALT	SEC	RAD	RESRVD	EXP (3)	FILE	RECORD
	ST		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130													125

NOTES:

HELIPORT MINIMUM SECTOR ALTITUDE (MSA) (HS) 4.2.4.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.61	RESERVED (14)																				5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																				CONT NR	APPL TYPE	NOTES ON CONTINUATION RECORD (69)																					FILE	RECORD
																					40																							NUMBER	CYCLE

NOTES:

HELIPORT COMM (HV) 4.2.5.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.101	5.103	5.182	5.104	5.16	5.106	5.102	5.198	5.199	5.36	5.37	5.39	5.92	5.181	5.183	5.29	5.184	5.184	5.185	5.14	5.4	5.5	5.187	5.188	5.200	5.14	5.4	5.5	5.105	5.31	5.32														
	CUST/	AREA	SEC CODE	HEPT	ICAO	SUB CODE	COMM	TYPE	COMM	FREQ	GT	FREQ	UNIT	SERV	IND	RADAR	MODULAT	SIGEM	LATITUDE	LONGITUDE	MAG	VAR	FAC	ELEV	H24	IND	SECTOR	ALT	DESC	ALTITUDE	1	ALTITUDE	2	SECTOR	FAC	ICAO	CODE	SUB CODE	DIST	DESC	COMM	DIST	REMOTE	FAC	ICAO	CODE	SUB CODE	CALL	SIGN (25)	FILE	RECORD
	ST		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130																						125	130

NOTES:

HELIPORT COMM (HV) 4.2.5.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.186	RESERVED (36)																				5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																				CONT NR	APPL TYPE	NARRATIVE (60)																					FILE	RECORD
																					40																							NUMBER	CYCLE

NOTES:

HELIPORT COMM (HV) 4.2.5.3 CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.131	5.132	5.138	5.195	RESERVED (23)																				5.31	5.32													
	CONTINUATION RECORD SAME AS ABOVE																				CONT NR	APPL TYPE	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	TIME	CD	RESERVED (23)	FILE	RECORD	
																					40																																							125

NOTES:

HELIPORT TAA (HK) 4.2.6.1 PRIMARY	5.2	5.3	5.4	5.6	5.14	5.5	5.10	5.272	5.271	5.273	5.14	5.4	5.4	5.5	5.16	5.165	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.146	5.147	5.274	5.31	5.32									
	CUST/	AREA	SEC CODE	HELI	ICAO	SUB CODE	APPROACH	IDENT	TAA	SI	TAA	PROCEDURE	TURN	TAA	IAF	WAYPOINT	ICAO	CODE	SUB CODE	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	SECTOR	MIN	RADIUS	FILE	RECORD	
	ST		5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130																								125

NOTES:

HELIPORT TAA (HK) 4.2.6.2 CONTINUATION	SAME PARAGRAPH AS ABOVE																				5.16	5.91	5.61	RESERVED (14)																				5.31	5.32
	CONTINUATION RECORD SAME AS ABOVE																				CONT NR	APPL TYPE	NOTES (69)																					FILE	RECORD
																					40																							NUMBER	CYCLE

NOTES: