

TABULAR DESCRIPTION

RNP RWY31 – Instrument Approach procedure

Serial Number	Path Terminator	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (ft)	Speed Limit (kt)	VPA/ TCH	Navigation Specification
010	IF	BCS	-	-	-	-	-	+4000	-	-	RNAV 1
020	TF	BR501	-	109 (113.3)	-	9.5	-	-	-	-	RNAV 1
030	TF	BR502	-	133 (137.2)	-	4.0	-	-	-200	-	RNAV 1
040	TF	NOGLU	-	223 (227.3)	-	4.0	R	+3500	-200	-	RNAV 1
050	TF	BR503	-	313 (317.2)	-	3.0	R	+2500	-	-	RNAV 1
010	IF	NOGLU	-	-	-	-	-	+3500	-	-	RNAV 1
020	TF	BR503	-	313 (317.2)	-	3.0	-	+2500	-	-	RNAV 1
010	IF	BR503	-	-	-	-	-	+2500	-	-	RNAV 1
020	TF	BR513	-	313 (317.2)	-	2.1	-	+2500	-	-	RNP APCH
030	TF	RWY31	Y	313 (317.2)	-	7.6	-	@73 (4)	-	-3.0/15.0M	RNP APCH
040	TF	BR512	-	313 (317.1)	-	10.8	-	+2500	-185	-	RNP APCH
050	HM	BR512	Y	133 (137)	-	-	R	+2500	-185	-	RNAV 1

Path Terminator	Waypoint Name	Inbound Course °M (°T)	Leg Distance (NM) (1)	Timing(min.)/ Waypoint Distance (NM) (2)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FL)	Speed Limit (kt)	Magnetic Variation (°)	Navigation Performance
HM	BCS	133(137)	3.8	- /5.0	L	+4000	-	-210	4	RNAV 1
HM	NOGLU (3)	313(317)	3.3	- /3.3	R	+3500	-	-185	4	RNAV 1
HM	BR512	133(137)	3.0	- /3.4	R	+2500	-	-185	4	RNAV 1

(1) RNAV system with holding functionality

(2) RNAV system without holding functionality

(3) Entry on Track

(4) THR Altitude plus TCH; for MA transition the value is according to the minima LNAV or LPV

Waypoints Table formatted according ARINC 424 standards

Waypoint	Latitude	Longitude
BR501	N40354490	E018083312
BR502	N40324874	E018120696
BR503	N40321773	E018053572
BR512	N40472030	E017471287
BR513	N40335005	E018034346

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LIBR
Runway	31
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E31A
LTP/FTP Latitude	403925.1890N
LTP/FTP Longitude	0175654.8545E
LTP/FTP Ellipsoidal Height (metres)	48.3
FPAP Latitude	404032.4630N
Delta FPAP Latitude (seconds)	67.2740
FPAP Longitude	0175532.6425E
Delta FPAP Longitude (seconds)	-82.2120
Threshold Crossing Height	49.2
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	8
HAL (metres)	40.0
VAL (metres)	35.0

Output data

Data Block	10 12 02 09 0C 1F 00 00 01 31 33 05 0A B6 72 11 8D E3 B3 07 E3 15 94 0D 02 B8 7D FD EC 01 2C 01 64 01 C8 AF 2E C7 50 80
Calculated CRC Value	2EC75080

Required Additional Data

ICAO Code	LI
LTP/FTP Orthometric Height (metres)	7.3