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República de Angola
Ministério dos Transportes

AIP
SUPPLEMENT
A006/2010
18 NOVEMBER 2010

INSTITUTO NACIONAL DA AVIAÇÃO CIVIL
SERVIÇOS DE INFORMAÇÃO E DOCUMENTAÇÃO AERONAUTICA

AIRAC EFFECTIVE DATE: 13 JANUARY 2011

1. Introduction:

In support of the global PBN initiatives the Atlantic Ocean Random Routing Area (AORRA) has been established to improve safety, efficiency and economics of operations over the high seas in the Southern Atlantic Ocean.

In order to enhance access to and from the AORRA the Angola have implemented additional entry and exit points to the AORRA within their areas of responsibility as well as establishing continental routes to facilitate the access.

Operators are to note that other than in emergency access/exit to/from the AORRA are restricted to the published entry and exit gates.

2. Implementation of AORRA gates:



2.1 The following entry/exit gates have been implemented in the Luanda Flight Information Region (FIR) in addition to the existing gates:

POSITION	DESCRIPTION	LATITUDE	LONGITUDE
5NLC			
UTSAG	Entry/Exit	S08 4932.87	E011 13 38.90
DUGRA	Entry/Exit	S11 3936.00	E011 20 34.00
EPMES	Entry/Exit	S13 00 0000	E011 19 24 00



ETLOV	Entry/Exit	S16 00 0000	E011 15 12 00
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3.1 The following ATS routes have been implemented in the Luanda Flight Information Region (FIR) in addition to the existing route system; ATS Route Chart is attached and description.


UT371 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ VNA (VOR) S 08 50 43 E013 14 51	277° 096°	120	RNAV10	A				Luanda FIR
▲ UTSAG (AORRA GATE) S08 49 33 E011 13 39			UNL FL 245					



UT399 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classifica tion	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ VNA (VOR) S08 50 43 E013 14 52	221° 041°	120	RNAV 10	A				Luanda FIR
▲ ANSUS (TMA) S10 31 00 E012 07 24	220° 041°	82	UNL FL 245					
▲ DUGRA (AORRA GATE) S 11 39 36 E 011 20 34			UNL FL 245					



UT372 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ABAPU (FIR BDRY) S 17 49 38 E019 02 02	326° 145°	211	RNAV10 UNL FL 245	A				Luanda FIR/ Windhoek FIR
▲IMVEX (XUA617) S 15 11 01 E016 35 51	326° 145°	197						
▲ILGOL (XUN187) S 12 42 09 E014 23 13	322° 142°	86						
▲APKAT (XUJ614) S 11 40 04 E013 21 55	322° 142°	42						
▲IBLUD (XUN190) S 11 09 29 E012 51 59	317° 137°	58						



UT372 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ ANSUS (TMA) S10 31 00 E012 07 24	326° 146°	69	RNAV10	A				Luanda FIR
▲ ONTAR (AORRA GATE) S 09 37 44 E011 23 07			UNL FL 245					



UT374 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ UB (NDB) S 14 55 26 E 013 35 52	319° 139°	93	RNAV1 0	A				Luanda FIR
▲ EVUKU (XUN190) S 13 54 36 E 012 23 42	318° 139°	83						
▲ EPMES (AORRA GATE) S 13 00 00 E 011 19 24			UNL FL 245					

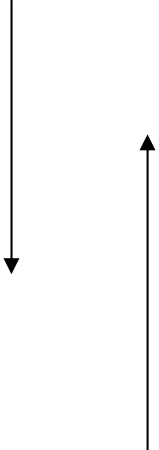
UT375 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling	
						Odd	Even		
1	2	3	4	5	6	7		8	
▲EVUVI (FIR BDRY) S 17 24 01 E 014 21 22	304° 125°	113	RNAV10	A				Luanda FIR/Windh oek FIR	
▲OKBIK (XUN190) S 16 35 48 E012 34 42	304° 125°	84						UNL FL 245	Luanda FIR
▲ETLOV (AORRA GATE) S 16 00 00 E 011 15 24									

UN184 Bi-directional

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling	
						Odd	Even		
1	2	3	4	5	6	7		8	
▲EVUVI (FIR BDRY) S 17 24 01 E 014 21 22	324° 145°	182	RNAV10	A				Luanda FIR/Windh oek FIR	
▲VMO (VOR) S 15 15 12 8 E 012 09 54	323° 143°	71						UNL FL 245	Luanda FIR
▲EGNAB (AORRA GATE) S 14 25 30 E011 17 24									

SEGMENT ROUTE J614

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲UB (NDB) S 14 55 26 E 013 35 51	172° 353°	155	RNAV10	A			Luanda FIR	
▲EVUVI (FIR BDRY) S 17 24 01 E 014 21 22	323° 143°	71	UNL FL 245				Luanda FIR/ Windhoek FIR	

ROUTE UA617 (AKAZU- ITNEL)

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classification	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ AKAZU (FIR BDRY) S 17 23 30 E 016 51 08	003° 180°	133	RNAV10 UNL FL 245	A		↓	↑	Luanda FIR/ Windhoek FIR
▲ IMVEX (X UT372) S 15 11 01 E 016 35 51	001° 180°	106						Luanda FIR
▲ NETIL (X UV858) S 13 25 34 E 016 24 12	360° 180°	102						Luanda FIR
▲ TIBAD (X UG853) S 11 43 35 E 016 12 49	359° 179°	98						Luanda FIR
▲ APRIG (X UA 400) S 10 05 30 E 016 02 00	359° 178°	39						Luanda FIR
▲ IMTOP (X UH600) S 09 26 26 E 015 57 43	358° 178°	38						Luanda FIR

ROUTE UA617 (AKAZU- ITNEL)

Route Designator Significant points coordinates	Track Mag (GED)	Dist (NM)	Upper Limits Lower Limits MNM FLT ALT	Airspace Classifica tion	Lateral Limits NM	Direction of Cruising levels		Remarks Controlling
						Odd	Even	
1	2	3	4	5	6	7		8
▲ ESVAS (X UH613) S 08 48 32 E 015 53 35	358° 178°	27	RNAV10	A		↓	↑	Luanda FIR
▲ ERDAB (X UH612) S 08 22 00 E 015 50 42	358° 178°	19						
▲ APNET (X UG450) S 08 02 45 E 015 48 36	358° 178°	24	UNL FL 245					
▲ ANTUX (X UM216) S 07 39 17 E 015 46 03	357° 177°	109						
▲ ITNEL (FIR BDRY) S 05 50 06 E 015 34 17								

The General Director

Gaspar F. Santos