

PART 2. EN-ROUTE (ENR)**ENR 4 RADIO NAVIGATION AIDS/SYSTEMS****ENR 4.1 RADIO NAVIGATION AIDS - EN-ROUTE**

NAME OF STATION	ID	FREQUENCY	HOURS	COORDINATES	ELEV DME ANTENNA	REMARKS
1	2	3	4	5	6	7
JUBA DVOR-DME (2°E - 2015)	JUB	113.1 MHZ (CH 78X)	H24	04°52'33.54"N 031°35'59.11"E	1565 ft	VOR CO- LOCATED WITH DME
*MALAKAL VOR-DME (3'E - 2015)	*MLK	*112.7 MHZ *(CH 74X)	*H24	09°33'47.40"N 031°39'11.41"E	1316ft	VOR CO- LOCATED WITH DME

*Malakal VOR-DME non-operational.

ENR 4.2 SPECIAL NAVIGATION SYSTEMS

-Not applicable.

ENR 4.3 GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)

1. RULES APPLICABLE TO USE OF GNSS AND PERFORMANCE-BASED NAVIGATION**1.1. Aircraft equipment**

Aircraft shall be equipped with suitable instruments and navigation systems certified for the level of performance-based navigation (PBN) being used.

1.2. Outages

The pilot-in-command shall notify ATC as soon as practical when there is a loss of PBN capability that affects the capability of the aircraft to navigate via the route of flight being flown, or anticipated to be flown.

1.3. Commercial Operators

Commercial operators shall operate within their approved PBN operational specifications.

2. LOSS OF CONVENTIONAL NAVAIDS

2.1. In the event of a VOR or VOR/DME or NDB outage the pilot-in command may elect to substitute the latitude/longitude GNSS position of the affected NAVAID in lieu of the non-functioning VOR or VOR/DME or NDB provided that:

- a) The aircraft is properly equipped and certified to allow for GNSS position substitution of a VOR or VOR/DME or NDB position.
- b) The pilot-in-command determines that GNSS position substitution will not adversely affect safety of flight.
- c) GNSS position substitution shall only be used during the en-route portion of flight.

ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS

NAME-CODE DESIGNATOR	COORDINATES	ATS ROUTE OR OTHER ROUTE	REMARKS
1	2	3	4
ALMAM	09°33'45"N 024°44'51"E	A410, UL311 , UP322	NIL
AMATO	05°18'36"N 035°01'24"E	A727	NIL
ANTAX	04°00'00"N 035°22'48"E	A727	NIL
ASKON	06°17'45"N 026°25'37"E	UL558, UL561 , UN311 , UP556	NIL
ATUGA	04°00'00"N 031°48'00"E	G656, UG656	NIL
AVONO	09°26'06"N 033°54'18"E	A727 , UP309 , UP322	NIL
AXOTI	10°03'30"N 034°13'18"E	UP752	NIL
DAGAP	06°24'00"N 034°12'00"E	UB535	NIL
DASAG	07°04'54"N 029°49'14"E	UL558	NIL
DASTU	07°49'21"N 033°08'00"E	UL558	NIL
DEDVA	10°27'46"N 033°31'34"E	UL563	NIL
DEKUM	04°37'42"N 029°39'36"E	UM568	NIL
DEMTI	09°32'03"N 026°45'06"E	UP322	NIL
EGBIM	07°29'16"N 031°37'16"E	UL554 , UL558	NIL
EPLAS	04°00'00"N 034°11'48"E	B612, UY613	NIL
GINPU	10°20'31"N 031°20'36"E	UP752, UY613	NIL
IMDUR	07°41'14"N 032°31'07"E	UB527, UL558. UL563, UM320, UP315, UY613	NIL
ITOMO	10°21'33"N 032°21'08"E	UP315	NIL
ITOXA	10°24'01"N 031°39'08"E	UL554	NIL
KABLA	03°59'59"N 032°21'30"E	UT238	NIL
KAFIA	08°44'00"N 023°31'00"E	A410, UL311 , UL317, UP565	NIL
KINOV	09°34'14"N 030°11'49"E	UM568	NIL
KUNDI	08°39'20"N 031°38'19"E	UL554	NIL
LOPON	10°06'06"N 024°03'38"E	UP565	NIL
LOVAB	10°01'47"N 024°58'28"E	UL317	NIL
MONAN	09°33'00"N 023°40'00"E	UP322	NIL
OVELA	04°00'00"N 031°14'54"E	B527, UB527	NIL
SAGBU	04°00'00"N 030°23'00"E	UY755	NIL
SIGNO	09°47'16"N 027°50'31"E	UN311	NIL
SITIK	09°25'56"N 031°08'09"E	UP322	NIL
TAPOS	05°54'08"N 033°20'02"E	B535, UB535, B612, UY613	NIL
ZENUB	09°41'06"N 028°58'41"E	UL561	NIL

ENR 4.5 AERONAUTICAL GROUND LIGHTS-EN ROUTE

-Not applicable.