ENR 3.1 LOWER ATS ROUTES

Route designator Name of significant points Coordinates	*Track MAG Rev Track MAG Length (NM)*	*Upper limit Lower limit MEA Airspace class*	*Lateral limits (NM) MOCA*	*Direction of cruising levels* Odd	Even	*RNP Type*	*Remarks*
1	2	3	4	5		6	7
A409							
▲SOBTO 10°03'54"S 028°56'44"E							
	189° 008° 63 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲MANSA NDB 'MA' 11°07'27"S 028°51'46"E							
	189° 009° 113 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲NDOLA VOR/DME 'VND' 12°59'53"S 028°40'00"E							
	189° 010° 58 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with Area Control Area Control Frequency 120.500Mhz
▲AVEKU 13°58'00"S 028°33'54"E							
	190° 011°	FL245 FL145	0				Two-way radio contact to be maintained

Route designator Name of significant points Coordinates	*Track MAG Rev Track MAG Length (NM)*	*Upper limit Lower limit MEA Airspace class*	*Lateral limits (NM) MOCA*	*Direction of cruising levels* Odd	Even	*RNP Type*	*Remarks*
1	2	3	4	5		6	7
	82 NM	Class A FL145 FL075 Class C					with NDOLA APPROACH FREQ 120.000Mhz
▲KENNETH KAUNDA VOR/DME 'VLS' 15°19'41"S 028°25'15"E							
	200° 021° 70 NM	FL245 FL145 Class A FL145 FL075 Class C	0	↑	↓		Two-way radio contact to be maintained with NDOLA APPROACH FREQ 120.000Mhz LUSAKA APPROACH FREQ 121.300Mhz
▲ETLUN 16°28'00"S 028°07'00"E							
	203° 023° 24 NM	FL245 FL145 Class A FL145 FL075 Class G	0	↑	↓		Two-way radio contact to be maintained with LUSAKA APPROACH FREQ 121.300Mhz
▲ESTAK 16°51'00"S 028°00'000"E							
Two-way radio contact to be maintained with Lusaka Control in these airspaces. Lusaka Control Frequency: 8888.0Khz 120.500Mhz 6586.0Khz 6952.0Khz							