

DUESSELDORF
RWY 05R

STANDARD INSTRUMENT DEPARTURE
ROUTES (SID)

Pilots of GPS/FMS-RNAV-equipped aircraft shall, if possible, use the supplementary GPS/FMS RNAV procedures which are described following the text "GPS / FMS RNAV:" and charted in addition on "CHART – INSTRUMENT (OVERLAY)". When using these supplementary GPS/FMS RNAV procedures, the pilot shall check and ensure that the underlying conventional flight procedures are adhered to by monitoring the information of the ground-based navigation aids. The ground-based navigation aids required for the use of the respective conventional flight procedure and the associated aircraft equipment shall remain in operation at all times.

Designator	Route	After Take-Off		Remarks
		Climb to	Contact	
1	2	3	4	5
MODRU 7Z	MODRU SEVEN ZULU On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 006° to 12.7 DME DUS (12.4 DME IDNE); LT, on track 288° to ORSOV(Δ); LT, on track 240° to VEBAK(Δ); LT, on track 197° via NETEX(Δ) to MODRU(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX - MODRU[F210+].	5000 ft	Langen Radar 121.355	<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with RFL 210 and above. Flights shall cross MODRU at FL 210 or above. If unable to comply, advise Clearance Delivery upon start-up request. 3. After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary.
NETEX 1X	NETEX ONE X-RAY On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 006° to 12.7 DME DUS (12.4 DME IDNE); LT, on track 288° to ORSOV(Δ); LT, on track 240° to VEBAK(Δ); LT, on track 197° to NETEX(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX.			<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights with further routing DCT RASCA or DCT DELOM. In case of radio com failure proceed with DCT. 3. After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary.
NETEX 4Z	NETEX FOUR ZULU On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 006° to 12.7 DME DUS (12.4 DME IDNE); LT, on track 288° to ORSOV(Δ); LT, on track 240° to VEBAK(Δ); LT, on track 197° to NETEX(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX.			<ol style="list-style-type: none"> 1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. For flights with RFL from 100 to 200 or flights via Z282 DIBIR L179 (if available). 3. After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary. 4. Not available for flights with further routing via NETEX DCT RASCA or NETEX DCT DELOM.
KUMIK 5Z	KUMIK FIVE ZULU On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on track 096° to BAM(Δ); on track 094° to ANAVI(Δ); RT, on track 126° to DEGOM(Δ); RT, on track 139° to KUMIK(Δ). Climb with 4.3% (260 ft/NM) or more until passing 3200. Cross DEGOM at FL150 or above. GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - DEGOM[F150+; R] - KUMIK.			<ol style="list-style-type: none"> 1. Only for flights with RFL 150 or above. 2. After passing 3200 BRNAV equipment necessary. 3. Normally not available for flights above FL250 via BOMBI, except Prop/Turbo Prop type aircraft. Flights unable to cross DEGOM at FL 150 or above shall advise clearance Delivery upon start-up request. 4. PDG due to MVA.
COL 5Z	COLA FIVE ZULU On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on R276 BAM inbound BAM; at 1.6 DME BAM (crossing R028 NVO) RT, on R161 BAM to LIPMI(Δ); LT, on R325 COL to COL(Δ). Cross LIPMI at FL150 or above. GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[R] - LIPMI[F150+; L] - COL.			Flights unable to cross LIPMI at FL 150 or above shall advise clearance Delivery upon start-up request.

Remain on TWR-Frequency until passing altitude 2000ft, then contact Langen Radar.