

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
<b>MODRU 7Z</b>	<b>MODRU SEVEN ZULU</b> 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(△); LT, on track 240° to VEBAK(△); LT, on track 197° to NETEX(△) to MODRU(△). Climb with 7% (425ft/NM) or more until passing 3000. <b>GPS/FMS RNAV:</b> [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"> <li>PDG due to airspace structure. If unable to comply, advise Delivery on start-up request.</li> <li>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.</li> <li>After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary.</li> </ol>
<b>NETEX 1X</b>	<b>NETEX ONE X-RAY</b> 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(△); LT, on track 240° to VEBAK(△); LT, on track 197° to NETEX(△). Climb with 7% (425ft/NM) or more until passing 3000. <b>GPS/FMS RNAV:</b> [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX.			<ol style="list-style-type: none"> <li>PDG due to airspace structure. If unable to comply, advise Delivery on start-up request.</li> <li>Only for flights with further routing DCT RASCA or DCT DELOM. In case of radio com failure proceed with DCT.</li> <li>After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary.</li> </ol>
<b>NETEX 4Z</b>	<b>NETEX FOUR ZULU</b> 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(△); LT, on track 240° to VEBAK(△); LT, on track 197° to NETEX(△). Climb with 7% (425ft/NM) or more until passing 3000. <b>GPS/FMS RNAV:</b> [A600+] - DL050[R] - DL053[L] - NIKOG[L] - ORSOV[L] - VEBAK[L] - NETEX.			<ol style="list-style-type: none"> <li>PDG due to airspace structure. If unable to comply, advise Delivery on start-up request.</li> <li>For flights with RFL from 100 to 200 or flights via Z282 DIBIR L179 (if available).</li> <li>After 12.7 DME DUS (12.4 DME IDNE) BRNAV equipment necessary.</li> <li>Not available for flights with further routing via NETEX DCT RASCA or NETEX DCT DELOM.</li> </ol>
<b>KUMIK 5Z</b>	<b>KUMIK FIVE ZULU</b> On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on track 096° to BAM(△); on track 094° to ANAVI(△); RT, on track 126° to DEGOM(△); RT, on track 139° to KUMIK(△). Climb with 4.3% (260 ft/NM) or more until passing 3200. Cross DEGOM at FL150 or above. <b>GPS/FMS RNAV:</b> [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - DEGOM[F150+; R] - KUMIK.			<ol style="list-style-type: none"> <li>Only for flights with RFL 150 or above.</li> <li>After passing 3200 BRNAV equipment necessary.</li> <li>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.</li> <li>PDG due to MVA.</li> </ol>
<b>COL 5Z</b>	<b>COLA FIVE ZULU</b> 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(△); LT, on R325 COL to COL(△). Cross LIPMI at FL150 or above. <b>GPS/FMS RNAV:</b> [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.