

STANDARD INSTRUMENT DEPARTURE
ROUTES (SID)

DUESSELDORF
RWY 05R

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
LMA 2Z	LIMA TWO ZULU On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 259° LMA to LMA(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL051[L] - DL052 - LMA.	5000 ft	Langen Radar 121.355	1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. Only for flights to EDLN.
SONEB 6Z	SONEB SIX ZULU On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 006° to 13.5 DME DUS (13.3 DME IDNE); LT, on track 347° to LUSIX(Δ); LT, on track 344° via DL054 to SONEB(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL053[L] - NIKOG[L] - LUSIX[L] - DL054[F140+] - SONEB.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. After 13.5 DME DUS (13.3 DME IDNE) BRNAV equipment necessary. 3. Only for flights with RFL140 or above via RKN/TENLI. Other flights proceed via MEVEL. Flights must be able to cross DL054 at FL140 or above. If unable advise clearance Delivery upon start-up request.
MEVEL 1Z	MEVEL ONE ZULU On R051 DUS to 6.0 DME DUS (5.8 DME IDNE); LT, on track 006° to 13.5 DME DUS (13.3 DME IDNE); LT, on track 347° to LUSIX(Δ); RT, on track 051° to MEVEL(Δ). Climb with 7% (425ft/NM) or more until passing 3000. GPS/FMS RNAV: [A600+] - DL050[R] - DL053[L] - NIKOG[L] - LUSIX[R] - MEVEL.			1. PDG due to airspace structure. If unable to comply, advise Delivery on start-up request. 2. After 13.5 DME DUS (13.3 DME IDNE) BRNAV equipment necessary.
GMH 6Z	GERMINGHAUSEN SIX ZULU On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on R276 BAM to BAM(Δ); on R094 BAM to ANAVI(Δ); RT, on R291 GMH to GMH(Δ). GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - GMH.			Only for flights with RFL 140 or below.
NVO 3Z	NÖRVENICH THREE ZULU On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on R276 BAM inbound BAM; at 3.6 DME BAM (crossing R025 NVO) RT, on R211 BAM to NVO(Δ). GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[R] - NVO.			1. For flights with RFL 90 and below. Flights with RFL 100 and above shall file via MODRU. 2. Additional available for flights via Q760 (between: 0500 (0400) – 0700 (0600)).
DODEN 7Z	DODEN SEVEN ZULU On R051 DUS to 6.4 DME DUS (6.2 DME IDNE); RT, on track 096° to BAM(Δ); RT, on track 132° to ELBAL(Δ); on track 133° to BETZO(Δ); RT, on track 145° to DODEN(Δ). Climb with 4.3% (260ft/NM) or more until passing 3200. Cross ELBAL at FL150 or above. Cross DODEN at FL250 or above. GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[R] - ELBAL[F150+] - BETZO[R] - DODEN[F250+].			1. After passing 3200 BRNAV equipment necessary. 2. Only for jet flights with RFL 250 or above. Flights shall cross DODEN at FL 250 or above. Flights unable shall file SID KUMIK. Flights unable to cross ELBAL at FL 150 or above shall advise clearance Delivery upon start-up request. 3. PDG due to MVA.
NUDGO 5Z	NUDGO 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 111° to MAMIB(Δ); LT, on track 066° to KULIX(Δ); LT, on track 060° to NUDGO(Δ). Climb with 4.3% (260ft/NM) or more until passing 3200. GPS/FMS RNAV: [A600+] - DL050[R] - DL058[R] - BAM[L] - ANAVI[R] - MAMIB[L] - KULIX[L] - NUDGO.			1. Not available for flights into upper airspace. 2. After passing 3200 BRNAV equipment necessary. 3. PDG due to MVA.

(Sample: DL051 fly-over way point)

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