

## RNAV STARs at GÖTEBORG/Landvetter

Note: This information must be included in Company Route Manuals.

### GENERAL

The RNAV STARs at GÖTEBORG/Landvetter are divided into two parts.

### OPEN STAR

Simplified RNAV STARs ending up at following waypoints RWY 03 – TOMVI and RWY 21 – MAXIV. Operators will be radar vectored to final.

Pilots are requested to plan their descent to perform a continuous descent operation (CDO), and to use descent speed 260 kt IAS or less from the cross over altitude. Advise ATC if higher descent speed is requested.

### CLOSED STAR

RNAV STARs leading to final approach. These RNAV STARs are noise preferential routes and should be adhered to.

Pilots are requested to plan their descent to perform a continuous descent operation (CDO), and to use descent speed 260 kt IAS or less from the cross over altitude. Advise ATC if higher descent speed is requested. Specified minimum level at waypoints must be adhered to unless specifically cancelled by ATC.

When descending on initial approach, noise reductions should be achieved using Low Power, Low Drag operating procedures (LP/LD) by maintaining a "clean" aircraft configuration until the final stage of the approach, provided this is consistent with safe operation of the aircraft.

### APPROVED USERS, EQUIPMENT AND OPERATIONS

RNAV 1 is required for these RNAV STARs.

Operators receiving clearance via RNAV STAR and are unable flying RNAV 1, shall inform ATC by using phraseology "UNABLE RNAV STAR". ATC will then provide radar vectors.

### POSITION UPDATE

All RNAV STARs are based on DME/DME or GNSS for position update. Failure of one DME in Göteborg TMA will affect following RNAV STARs navigation based on DME/DME. ACFT depending on DME/DME for position update shall inform ATC for radar vector.

| DME U/S | RWY | DME/DME for position update not available for following RNAV STAR                        |
|---------|-----|--|
| BAK     | 03  | MAKUR 4K, MAKUR 5L, LOBBI 4K, LOBBI 5L, RISMA 3K, RISMA 4L                               |
| HGG     | 03  | MAKUR 4K, LOBBI 4K, RISMA 3K   |
| LAV     | 03  | MAKUR 4K, LOBBI 4K   |
| PGG     | 03  | MAKUR 4K, LOBBI 4K, RISMA 3K   |
| SDH     | 03  | MAKUR 4K, LOBBI 4K   |
| SDH     | 21  | KELIN 3S, KELIN 3T, MOXAM 4S, MOXAM 3T, NEGIL 3S, NEGIL 3T, RISMA 3S, LOBBI 4S, MAKUR 4S |

### RNAV EQUIPMENT FAILURE

If the airborne RNAV equipment fails, ATC shall be informed as soon as practicable. ATC will then provide radar vectors.

### RNAV STAR DESCRIPTION

For each RNAV STAR, there is a description with a list of waypoints in sequence. If there is an altitude restriction and/or a speed restriction, this will be notified on chart and in the STAR description. There is also a description of the database coding to be used by navdatabase suppliers only. The coding is according to AIRINC 424 standard.

### CHART FOR RNAV STAR CLOSED

Each RNAV STAR includes information about distance to threshold "DTG XX NM" (DTG = Distance To Go) at certain waypoints in order to facilitate a continuous descent approach (CDA).