

KLN 94/89 TEACHING NOTES

Mat Waugh

- Power-Up
 - Database Currency issues – AIM reference
 - NEED A CURRENT DATABASE FOR APPROACHES!
 - This means for use as DME or NDB replacement as well!
 - Not for En-Route or Terminal
- Quicktune
 - Available on KLN-94 only – check SET-14
- Flight Plans
 - FPL-0 is “special”
 - Display Options are: DIST, ETE, ETA, DTK
 - Cancel a Direct-To (D->, CLR, ENT) – Re-aligns with nearest FP segment
- Locating Yourself – NAV-2 – Reference Position
- NAV-4 – Map Page
 - On KLN-89 ONLY
 - CRSR to ‘>’ field, CLR – DTK, GS, ETE, X-TRK
 - On KLN-94 ONLY
 - Line 4 – TRK, BRG, RAD, GS
 - Line 5 – ETE, X-TRK, VNAV
 - Set Map Display
 - KLN-89 – NAV-4 – CRSR Menu? ENT
 - KLN-94 - SET-7 or MNU
 - De-clutter using the CLR button
- Altitude Management
 - Alerting
 - Check setup on SET-9 (KLN-89) SET-13 (KLN-94)
 - ALTx1 – Set Baro.
 - ALTx2 – Set altitude for alerts
 - VNAV
 - ALTx2 – allows cross at altitude (+ is after fix)
- LEG mode and OBS mode
 - LEG mode has normal sequencing
 - OBS mode – suspends sequencing, allows radial selection
 - Needed for procedures turns, vectors to final and holds.
- Approach ARM and Active
 - CDI scaling normal +/- 5.0NM
 - ARM - +/- 1.0NM
 - ACTV - +/- 0.3NM
 - Changeover is normally automatic (within 30NM and 2NM of the FAF)
- Normal operation from the NAV 4 page.
- Will not sequence into the Missed Approach
- AUX-4-11 (KLN-94) for trip planning – CAL and OTH on KLN-84

- Loading an Approach (ACT 8 or APT 8 or PROC (KLN-94))
 - Selecting an IAF
 - Adds to FPL 0
- Changing or Deleting an Approach

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- The Missed Approach “fence”
- Approach Types:
 - GPS/RNAV Approaches (T style approach)
 - Overlay Approaches (normally have procedure turns)
 - KLN-94 shows procedure turns and holds on map.
- Flying an Approach
 - Normal Sequencing
 - Procedure Turn Interrupted Sequencing
 - Vectors to Final
 - KLN-94 – option on approach load instead of an IAF
 - DME Arc
- Normal Sequencing
 - Just follow the sequencing.
- Procedure Turn
 - Before arriving at the FAF (IAF) for the FIRST time – go to OBS mode
 - Use the OBS headings to navigate through the procedure turn
 - Before getting 2NM from the FAF for the SECOND time – return to LEG mode.
 - Just follow the sequencing.
 - NOTE When the Navaid is ON the airport (i.e. no specific FAF fix) use D-> then D-> when setting the FAF as the active fix to avoid setting the course as Direct to the FAF while in the Procedure Turn.
- Vectors to Final
 - KLN-94 – if VTF loaded as IAF then OBS not needed
 - PROC to ACTIVATE VECTORS
 - Before reaching the FAF make the FAF the active waypoint (D-> then D-> makes it active but does NOT send you directly there)
 - Go to OBS mode – set to the Final Approach Course
 - Approaching 2NM from the FAF – return to LEG mode
 - Follow the sequencing.
- DME Arc
 - Load the approach as normal, select the endpoint of the arc as the IAF.
 - NOTE – the GPS setups the arc interception based on your current radial from the defining navaid (VOR). Wait until close into the approach to select the approach to avoid the interception waypoint being incorrectly set.
 - Recomputing the ARC intercept?
 - From NAV 4 – pull out the inner knob, scan to the IAF.
 - OR from FPL 0 – CRSR to the IAF.
 - THEN press CLR
 - Hit ENT to recompute a new intercept
 - Hit CLR to forget it.
 - Once established on the ARC – NAV 4 has the 3 digit radial in the bottom right of the screen.