NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

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Attachment 8 – Change of Departure Runway

OPERATIONAL FACTORS

DCA14MA081

Source: USAirways A320 Training Manual, Section 5a.4.2 "Start and Before Takeoff", page 5a-102.

Before Takeoff.

Change of Departure Runway

— Press the F-PLN key [F-PLN]

— Select lateral revision (1L)

```
FROM           AWE1970  ←→
TPA4     TIME   SPD/ALT
KTPA19R  0000   135/     20
H194·    BRG181·      1
430      0001   152/    430
H200·
MANUAL   ----   ---/ -----

---F-PLN DISCONTINUITY--
(SPD)
(LIM)    0004  ·206/ 10000
DEST     TIME   DIST   EFOB
KCLT36C  0117   517    14.2
                       ↑ ↓
```

— Select DEPARTURE (1L)

```
    LAT REV FROM KTPA19R
    27·53.6N/082·32.5W
<DEPARTURE
        LL XING/INCR/NO
          [  ]°/[  ]°/[]
            NEXT WPT
             [     ]
            NEW DEST
             [   ]
<RADIAL FIX INFO

<RETURN
```

— Select the new departure RWY using the Left LSK

Use the vertical slew keys [↓↑] , if necessary, to display the runway if multiple runways exist.

— Select the departure SID/TRANSITION (if required)

— Confirm the RWY, SID and Transition selections (listed in yellow across line 1 on MCDU screen)

— Select TMPY F-PLN (6L) or TMPY INSERT (6R)

The TMPY F-PLN is displayed on the ND as a dashed yellow line(s).

• Note •

An amber "CHECK TAKEOFF DATA" scratchpad message is triggered after the new RWY is inserted.

— Press the PERF key PERF

— Confirm the V Speeds on the PERF TAKE OFF page

The previous takeoff data (V1, VR, V2, FLX TO values) appear in small blue font beside the corresponding fields. The PFD takeoff speeds are removed from the PFD speed scale. The FLAPS/THS, THR RED/ACC and ENG OUT ACC data, if entered, will remain.

If *no data change* is necessary:

— Select CONFIRM TO Data (6R), or

Enter *Revised* TAKEOFF data:
- — Automatic Uplink process
  (Refer to 7d.4.1, *Automatic Uplink-Weight & Balance Data Received*).

- — Manual Entry process
  (Refer to 7d.4.1, *Manual Entry-Weight & Balance Data Received*).

Change of SID

- — Press the F-PLN key   F-PLN

- — Select lateral revision (1L)

- — Select DEPARTURE (1L)

- — Select horizontal slew ←→ (next page) key to view DEPARTURE page 2 for SIDs

- — Select the vertical slew ↓↑ key to view complete list of SIDs (as required)
- — Select the new SID/TRANSITION

— Confirm the RWY, SID and Transition selections (listed in yellow across line 1 on MCDU screen)

— Select TMPY F-PLN (6L)

The TMPY F-PLN is displayed on the ND (use PLAN mode with appropriate ranging and CSTR selected on EFIS control panel). The newly selected Route is depicted as a dashed yellow line(s).
or

— Select TMPY INSERT (6R)

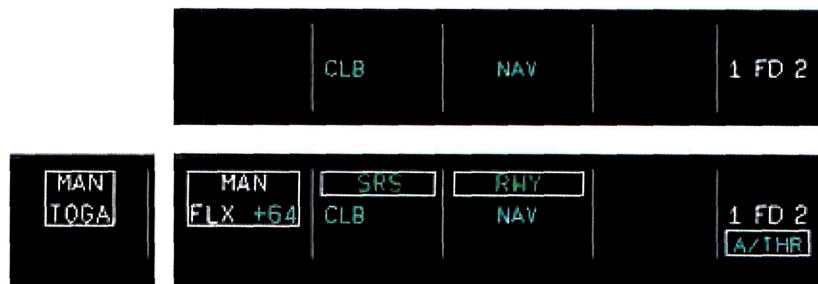The F-PLN with the new SID is now activated.

5a.4.3 Takeoff and Transition to Climb.

FMGS Phase change – Preflight to Takeoff. The FMGS transitions automatically from the preflight phase to the takeoff phase when the following conditions are met:

— Thrust levers are set to the FLEX or TOGA detent, and

— Left or right EPR is above a defined value, or

— Ground speed is above 90 knots

Pilot Indications. When the FMGS switches from the PREFLIGHT phase to TAKEOFF phase:

— Flight Mode Annunciator (FMA) displays MAN TOGA or MAN FLEX XX

— MCDU PERF and PROG pages:

• PERF page title word "TAKE OFF" changes color from white to green

• PROG page title word "PREFLIGHT" changes to "TAKE OFF" and color changes from white to green

• The PERF modifiable values (V1, VR, V2, THR RED/ACC, ENG OUT ACC, FLX TO if applicable, and FLAPS/THS) switch from blue to non-modifiable and green