

A318/A319/A320/A321

FLIGHT CREW OPERATING MANUAL

PROCEDURES NORMAL PROCEDURES

STANDARD OPERATING PROCEDURES - APPROACH

APPROACH USING FINAL APP GUIDANCE

Ident.: PRO-NOR-SOP-18-C-C-00014521.0002001 / 29 MAY 13

Applicable to: ALL

GENERAL

The following items are to be performed in addition to previous SOP chapters in the following cases:

- RNAV(GNSS) approaches with LNAV and LNAV/VNAV minima
- Conventional approaches based on VOR or NDB using FINAL APP guidance.

Ident.: PRO-NOR-SOP-18-C-C-00014522.0003001 / 09 SEP 14

Applicable to: ALL

AIRCRAFT EQUIPMENT

For RNAV(GNSS) approaches, Refer to PRO-SPO-51 RNP APCH / RNAV(GNSS) - Required RNP APCH Equipment

Ident.: PRO-NOR-SOP-18-C-C-00015860.0001001 / 09 SEP 14

Applicable to: ALL

FLIGHT PREPARATION

For RNAV(GNSS) approaches, GPS PRIMARY availability should be confirmed. Refer to PRO-NOR-SOP-02 GPS PRIMARY Availability (If Installed)

Ident.: PRO-NOR-SOP-18-C-C-00014524.0002001 / 09 NOV 21

Applicable to: ALL

L2

DESCENT PREPARATION

- The FMS vertical profile does not take into account the effect of low OAT. Therefore, vertical

WEATHER AND LANDING INFORMATION......OBTAIN

- managed guidance:
- Must not be used when the actual OAT is below the minimum temperature indicated on the approach chart or defined by the Operator, or
- May not be used when temperature corrections are required (FINAL APP mode may not engage)
- For RNAV (GNSS) approach with LNAV VNAV minima, use of QNH from a remote station is prohibited.

PM

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L1	F-PLN A page
L2	 If a TOO STEEP PATH is displayed after the FDP, do not use FINAL APP guidance for approach. Use NAV FPA, TRK FPA or FLS for approach 0.1 degree of difference between the MCDU and the charted final vertical path is acceptable 1 degree of difference between the MCDU and the charted final lateral track is acceptable.
	Note: A higher lateral track value can be acceptable if the navigation database has been validated to exclude potential coding error
	 3 degree of difference between the MCDU and the charted final lateral track is acceptable for conventional radio NAVAID approach.
L1 L2 L1	PROG page
	: PRO-NOR-SOP-18-C-C-00014525.0003001 / 22 NOV 21 cable to: ALL
D	ESCENT
	<u>At 10 000 ft</u> <u>AAL</u> :
	NAV ACCURACYCHECK PF
L2	If NAV accuracy is LOW, use TRK FPA mode for approach (Refer to APPR using FPA guidance).
L1	● For RNAV(GNSS) approach: GPS PRIMARY
L1	BARO REFSET PF
L2	The vertical guidance requires a precise BARO setting. The maximum acceptable discrepancy between altimeters is 100 ft.
	: PRO-NOR-SOP-18-C-C-00014526.0002001 / 09 NOV 21 (cable to: ALL
<u>IN</u>	NITIAL/INTERMEDIATE/FINAL APPROACH
L2	POSITION

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STANDARD OPERATING PROCEDURES - APPROACH

L1	APPR pb on FCUPRESS	ī	PF
L2	Press the APPR pb when all of the following conditions are satisfied: The aircraft is cleared for approach TO waypoint is the FDP.		
L1	APP NAV		PF PF
L2	 Check that the V/DEV scale is displayed on the PFD. At the FDP, a blue arrow on ND indicates that FINAL APP engagement conditions at 	re met.	
L1	At the Final Descent Point :		
	FINAL APPCHECK ENGAGED GO-AROUND ALTITUDESET FLIGHT PARAMETERSMONITOR	В	PF OTH PM
	 Monitor XTK error on ND Monitor V/DEV on PFD Crosscheck distances versus altitudes as published on the charts If approaching on a conventional radio NAVAID procedure, monitor the lateral and verguidance using raw data The PM calls out if excessive deviation occurs: XTK > 0.1 NM V/DEV > ½ dot		
A	AT ENTERED MINIMUM +100 FT		
	ONE HUNDRED ABOVEMONITOR OR ANNOUNCE		РМ
	t.: PRO-NOR-SOP-18-C-C-00014527.0008001 / 09 NOV 21 licable to: 9H-GTS, 9H-HUB		
A	AT ENTERED MINIMUM		
L2	MINIMUMMONITOR OR ANNOUNCE Below minimum, the visual references must be the primary references until landing. For more information regarding transition to visual references, Refer to FCTM/PR-NP-S Transition to Visual References.	 SOP-25	PM

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STANDARD OPERATING PROCEDURES - APPROACH

L1	■ If visual references are sufficient: CONTINUEANNOUNCE	PF
	At the latest at the MAP or Minimum Use Height of the AP (whichever occurs first): APOFF	PF
L2	 For Minimum Use Height of the AP, Refer to LIM-AFS-10 Autopilot Function At minimum -50 ft, if the AP is still engaged, the message DISCONNECT AP FOR LDG pulses on the FMA to remind the flight crew that automatic landing is not available. 	
L1	FDAS RQRD	PF
	CAUTION - From minima down to the MAP, the FD provides an additional guidance. The FD must be switched off if the guidance is not relevant or not followed. - After the MAP, disregard the FD as it reverts to HDG V/S.	d
	■ If visual references are not sufficient: GO-AROUNDANNOUNCE	PF
L2	Initiate a go-around.	
	: PRO-NOR-SOP-18-C-C-00014527.0010001 / 09 NOV 21 cable to: 9H-EMU	
A	T ENTERED MINIMUM	
L2	MINIMUMMONITOR OR ANNOUNCE Below minimum, the visual references must be the primary references until landing. For more information regarding transition to visual references, Refer to FCTM/PR-NP-SOP-250 Transition to Visual References.	PM
L1	■ If visual references are sufficient: CONTINUEANNOUNCE	PF
L2 L1	At the latest at the MAP or Minimum Use Height of the AP (whichever occurs first): APOFF For Minimum Use Height of the AP, Refer to LIM-AFS-10 Autopilot Function. FDAS RQRD	PF PF
	CAUTION - From minima down to the MAP, the FD provides an additional guidance. The FD must be switched off if the guidance is not relevant or not followed. - After the MAP, disregard the FD as it reverts to HDG V/S.	d
L2	■ If visual references are not sufficient: GO-AROUNDANNOUNCE Initiate a go-around.	PF

18 MAY 22

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Ident.: PRO-NOR-SOP-18-C-C-00014528.0002001 / 03 NOV 21

Applicable to: ALL

MANAGEMENT OF DEGRADED NAVIGATION

- For VOR and NDB approaches, be prepared to continue the approach with reference to appropriate raw data by reverting to:
 - NAV-FPA, if the vertical guidance is not satisfactory
 - TRK-FPA, if the lateral guidance is not satisfactory.

• For RNAV(GNSS) approaches with LNAV minima:

- Use the appropriate remaining AP/FD in the following cases:
 - GPS PRIMARY LOST on one ND
 - NAV ACCUR DOWNGRAD on one ND
- Discontinue the approach in the following cases, if external visual references are not sufficient to proceed visually:
 - GPS PRIMARY LOST on both NDs
 - XTK > 0.3 NM
 - NAV FM/GPS POS DISAGREE
 - NAV ACCUR DOWNGRAD on both NDs.
- Be prepared to continue the approach by reverting to NAV-FPA, if the vertical guidance is not satisfactory.

For RNAV(GNSS) approaches with LNAV/VNAV minima:

- Use the appropriate remaining AP/FD in the following cases:
 - GPS PRIMARY LOST on one ND
 - NAV ACCUR DOWNGRAD on one ND.
- Discontinue the approach in the following cases, if external visual references are not sufficient to proceed visually:
 - GPS PRIMARY LOST on both NDs
 - XTK > 0.3 NM
 - NAV FM/GPS POS DISAGREE
 - NAV ACCUR DOWNGRAD on both NDs.
- Discontinue the approach in the case of deviation of 75 ft below the vertical path (V/DEV > 3/4 dot).