Criterion # (AC 20-128D)	PBN Capability	Flight Phase	Equipment Operating Mode	Criterion Text	Compliance Technique	Compliance Notes	Results (Met / Not Met)	Comments
12-8 (Title)				Final Approach Segment Step-Down Fixes in Navigation Databases			,	
12-8 (a)				[] the database must include all named waypoints that make up the instrument approach procedure except for final approach segment stepdown fixes. Showing step-down fixes on a vertical profile display can enhance flight crew situation awareness, but can also complicate installation issues (see paragraphs 12-8.b through 12-8.d).		This Criteria Table constitutes contact with the DND certification authority. Approval requested for the onboard navigation database to contain step-down fixes.		
12-8 (b)	RNP APCH Part A (GNSS) RNP APCH Part B (GPS SBAS)	All approach segments	See PBN Capability Description	Equipment manufacturers providing final approach segment step-down fixes in their onboard navigation databases for RNAV (GPS) approach procedures must either provide a method to remove them or provide an installation limitation for cockpit configurations that cannot properly support them (i.e., define the requirements in the installation instructions/manual).	Inspection	The Flight Management System (FMS) installation instructions contain criteria for the cockpit configuration. Each MFD will be assessed using the criteria in the FMS installation instructions.		
12-8 (c) (excluding subparas)	Same as above	All approach segments	See PBN Capability Description	[] The airworthiness applicant must ensure the displayed RNAV(GPS) approach is in the primary field of view, in the proper sequence, unambiguous, and does not create detrimental clutter.	Inspection	As above.		
12-8 (c)(2)	Same as above	All approach segments	See PBN Capability Description	When installing equipment with final approach segment step-down fixes in the onboard navigation database, the display integration must: • Be accessible and readable by all required flight crewmembers; • Cleary depict and label the aircraft's track; • Clearly label displayed waypoints, fixes and numeric information with sufficient detail to enable a pilot to discern a step-down fix from other fixes on a procedure.	Inspection	As above.		
A12-8 c (3) First criterion	Same as above	All approach segments	See PBN Capability Description	The suggested optimum implementation is showing final approach segment step-down fixes for LNAV and LP approaches, but not showing final approach segment step-down fixes during an LNAV/VNAV or LPV approach.	Flight Test	Final approach segment step- down fixes are displayed during LNAV/VNAV approaches. They are not displayed during an LPV approach.		
12-8 c (3) second criterion	Same as above	All approach segments	See PBN Capability Description	[] When displaying distance/bearing/track to a step-down fix on the LPV final approach segment (i.e., after crossing the final approach fix), the equipment must also provide a readily available, clear, unambiguous indication of distance/bearing/track to the LTP/FTP. Due consideration should be given to the cockpit configuration and display capabilities during the airworthiness approval process.	Flight Test	The MAP page shows the step- down fix name, distance and track in a callout box attached to the fix. The feature is not selectable. Non-interference with LPV path construction will be demonstrated in flight.		
12-8 (d)	Same as above	All approach segments	See PBN Capability Description	[] airworthiness applicants must include language for a limitation in the AFM(S)/ RFM(S) (or equivalent documentation) requiring the flight crew to use the primary barometric altimeter to comply with a final approach segment step-down fix altitude restriction during an LNAV, LP, or non-ILS conventional approach. []	AFM	This is a limitation in the current AFM.		
TAA Advisory 2019–05, Additional Technical Criteria	Same as above	All approach segments	See PBN Capability Description	5. Inoperative Equipment. The effect of inoperative equipment on the PBN capability must be assessed and if necessary addressed by AFM limitations, or the MEL.	Inspection	Display of step-down fixes will be assessed with any one MFD inoperative.		