ADS-C CDP Climb/Descend Procedure Implementation Project Update

Presented to: ISPACG/29

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360 ADS-C CDP N552

CDP developed in response to operator requests to utilize the FANS equipment they invested in for NextGen for which they were receiving no benefit return

benefit return UAL 892 *3

3401360

N561

Climb/Descend an aircraft through the altitude of a blocking aircraft using reduced 15NM separation



N555



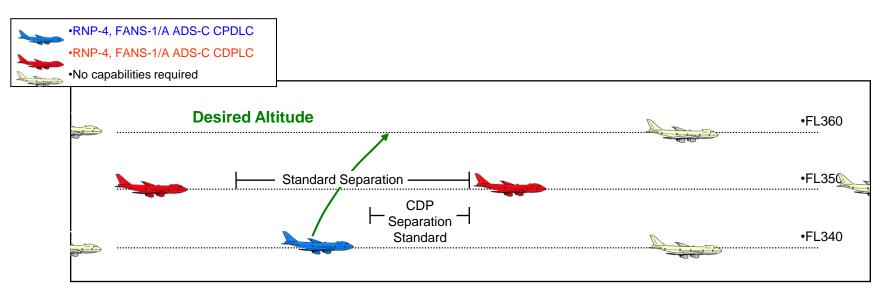
350

ADS-C Operational Requirements

- CPDLC maintained
- Distance between aircraft determined from near simultaneous ADS-C demand reports which contain position accuracy of 0.25 NM or better (Figure of Merit 6 or higher)
- Distance between aircraft is not less than
 - 15NM when same speed/faster aircraft in front
 - 25NM when faster aircraft in back (not more than M0.02)
- Altitude difference between aircraft not more than 2000ft
- Clearance assures vertical separation within 15 minutes from first ADS-C report request



Automated ADS-C CDP

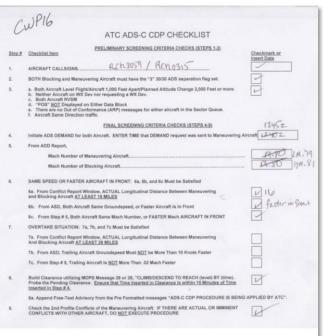


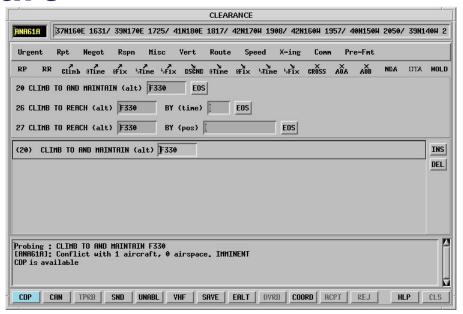
Automation requirements

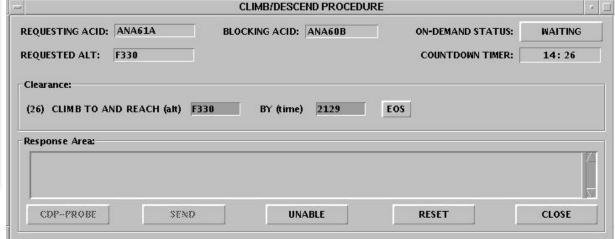
- ATOP conflict probe decision support tool determines when CDP can be applied for climbing/descending aircraft by determining eligibility
- ATOP will account for maneuvering aircraft, blocking aircraft, and all other traffic
- ATOP will be able to handle multiple maneuvers in one or multiple sectors
- Controller either issues the clearance for the climb/descend or UNABLE



Automated Procedure









Current Working Schedule

- ADS-C CDP automation, when ready as an operational capability, will be installed and employed in Anchorage, Oakland and New York oceanic airspace.
- Software projected to be loaded in early 2016.
- The projected initial operating capability (IOC) of the automated ADS-C CDP procedure is June 2016.

ICAO ADS-C CDP Attachment A

- The 25th Separation and Airspace Safety Panel (SASP) Working Group Meeting conducted a final review of the Procedures for Air Navigation Services – Air Traffic Management (PANS-ATM) proposal for amendment.
- The Circular and the impact statement concluded that all work has been completed and that the separation standard is ready for presentation to the Air Navigation Conference (ANC) for approval.
- It is anticipated that, pending approval, the standard will be applicable in November 2016.

Questions?