

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> DENVER INTL	<u>AIRPORT ID</u> KDEN	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 7	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> DENVER	<u>STATE</u> CO	
<u>AIRPORT ELEVATION</u> 5434	<u>TDZE</u> 5352	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 7	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/11/2014	<u>MAG VAR</u> 8E	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 26 MARCH 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HAITR	IF	DWLLT		TF	FB	1.00	262.53	4.00	9800
DWLLT		MNCHH		RF	FB	1.00	(2.70 NM RADIUS CCW (CFRXXR))	8.49	7200
BBOOK	IF	BEEKY		TF	FB	1.00	262.46	4.02	9800
BEEKY		TAILR		RF	FB	1.00	(2.90 NM RADIUS CW (CFMDN))	9.11	7000
SARAH	IF	MNCHH		TF	FB	1.00	082.31	6.14	7200
MNCHH		TAILR	PFAF	TF	FB	1.00	082.40	0.90	7000
TAILR	FAF	DA	MAP	TF	FO	0.30	082.41	5.01	
DA	MAP	5900 MSL		CA			082.41		5900
5900 MSL		CIDMU		DF	FB	1.00			
CIDMU		LIMEX		TF	FO	1.00	081.18	27.69	10000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CIDMU AND TRACK 081.18 TO LIMEX AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	PROFILE STARTS AT TAILR				
3. FAC:	082.41	PFAF:	DIST PFAF TO MAP:	DIST PFAF TO THLD:	
4. MIN ALT:	TAILR 7000				
5. DIST TO THLD FROM OM:	5.01	MM:	IM:	150 HAT:	250 HAT: 0.62
6. MIN GP INCPT:	7000	GP ALT AT PFAF : TAILR 7000		OM:	MM:
7. GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR
8. MSA FROM:	RW07 10900				
150 HAT:	250 HAT:	GS ANT:	MM:	IM:	
TCH:	55.1				

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -23°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 4000, AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS
CHART SPEED ICON IN PLANVIEW AT BBOOK: MAX 210 KIAS
CHART SPEED ICON IN PLANVIEW AT HAIR: MAX 210 KIAS
CHART PLANVIEW NOTE ADJACENT TO BBOOK IF: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO HAIR IF: RF REQUIRED.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 11000 AT BBOOK
CHART MANDATORY 11000 AT HAIR
HOLD W, RT, 081.12 INBOUND



MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.15 DA	5602	2400	250	5602	2400	250	5602	2400	250	5602	2400	250			
RNP 0.30 DA	5753	4000	401	5753	4000	401	5753	4000	401	5753	4000	401			

CHANGES - REASONS

1. ADDED PBN REQUIREMENT NOTE RNP AR APCH. - ADDED IAW 8260.58A CHNG 2 TABLE 1-2-1.
2. REMOVED PLANVIEW NOTE BERNZ: MAX 210 KIAS. - BERNZ WAYPOINT REMOVED FROM PROCEDURE.
3. REMOVED PLANVIEW NOTE ADJACENT TO BERNZ: RF REQUIRED. - BERNZ WAYPOINT REMOVED FROM PROCEDURE.
4. REMOVED PLANVIEW NOTE AT BERNZ: (RNP 0.80). - BERNZ WAYPOINT REMOVED FROM PROCEDURE.
5. REMOVED ROUTE TYPE INFORMATION FROM ADDITIONAL FLIGHT DATA. - DATA NO LONGER REQUIRED.
6. REMOVED CHART MANDATORY 11000 AT BERNZ FROM ADDITIONAL FLIGHT DATA. -. BERNZ WAYPOINT REMOVED FOR PROCEDURE.
7. UPDATED PROFILE NOTE FROM "VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - UPDATED IAW 8260.19G. PARA 8-6-9(M)1.
8. ADDED PLANVIEW NOTE ADJACENT TO HAITR IF: RF REQUIRED. - NEW FIX HAITR ADDED TO PROCEDURE.
9. RNP 0.30 DA MDA/HAT CHANGED FROM 5678/326 TO 5753/401. - NEW CONTROLLING OBSTRUCTION IDENTIFIED.
10. RNP 0.10 DA UPDATED TO RNP 0.15 DA PER CRITERIA AND DA/HAT CHANGED FROM 5619/267 TO 5602/250. - RNP 0.10 LINE OF MINIMA NO LONGER PUBLISHED AND NEW CONTROLLING OBSTRUCTION IDENTIFIED.
11. FIXES RONNN AND SHLTE REMOVED FROM PROCEDURE. - PER DENVER METROPLEX MASTER RNP FILE AND IFP CHECKLIST.
12. REMOVED NOTE GPS REQUIRED. - NOTE NO LONGER REQUIRED.
13. FIX BBOOK UPDATED TO REFLECT IF IN LIEU OF IF/IAF.
14. RNP 0.30 DA ALL CATS VISIBILITY CHANGED FROM RVR 3200 TO RVR 4000 AND RNP 0.30 DA ALL CATS DA/HAT CHANGED FROM 5678/326 TO 5753/401 . - UPDATED IAW APPROVED VISI CHECK TOOL AND NEW CONTROLLING OBSTRUCTION IDENTIFIED.
15. NOTE SIMULTANEOUS APPROACH WITH RWY 8, EXCEPT FOR ARRIVALS AT BBOOK AND BERNZ CHANGED TO SIMULTANEOUS APPROACH AUTHORIZED . - NOTE UPDATED IAW 8260.19H PARA 8-6-1108.
16. REMOVED NOTE USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. - NOTE NO LONGER IN CRITERIA.
17. CHANGED PLANVIEW NOTE AT BBOOK: MAX 210 KIAS TO CHART SPEED ICON IN PLANVIEW AT BBOOK: MAX 210 KIAS. - IAW 8260.19H PARA 4-6-10G.
18. ADDED CHART SPEED ICON IN PLANVIEW AT HAITR: MAX 210 KIAS. - ADDED IAW 8260.19H PARA 4-6-10G.
19. REMOVED CHARTING OF LOC RWY 8 FROM ADDITIONAL FLIGHT DATA. - CHARTING OF THE LOC IS NO LONGER REQUIRED IAW 8260.19H.
20. CHANGED DISTANCE TO THLD FROM 267 HATH: 0.67 NM TO 250 HAT: 0.62 NM. - DA/HAT LOWERED AND CHANGED HATH TO HAT.
21. ADDED DWLTT AND MNCHH. - FIXES ADDED PER DENVER METROPLEX MASTER RNP FILE AND IFP CHECKLIST.
22. UPDATED UNCOMPENSATED BARO-VNAV NOTE TO REFLECT CELSIUS VALUES ONLY AND CHANGED HIGH TEMP VALUE FROM 46 TO 54. - UDATED IAW 8260.19H PARA 8-6-9S.
23. UPDATED INOPERATIVE MALSR NOTE FROM "FOR INOPERATIVE MALSR, INCREASE RNP 0.10 ALL VATS VISIBILITY TO RVR 4500 AND RNP 0.30 ALL CATS VISIBILITY TO RVR 5000" TO "FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 4000, AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000. - UPDATED IAW 8260.19H PARA 8-6-1103D.
24. REMOVED RADAR REQUIRED NOTE. - NOTE NO LONGER REQUIRED PER CRITERIA.
25. CHANGED MSA ALTITUDE FROM 11000 TO 10900. - NEW CONTROLLING OBSTRUCTION IDENTIFIED.
26. UPDATED MISSED WORDING FROM "CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CIDMU AND ON TRACK 081° TO LIMEX AND HOLD." TO "CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT CIDMU AND TRACK 081.18 TO LIMEX AND HOLD". - THE WORD "ON" IS NO LONGER REQUIRED.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZDV, DEN ATCT, DEN APP CON, AMGR

FLIGHT CHECKED BY

JAMES HAWLEY

Digitally signed by

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Jan 28, 2020

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