

**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 ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
DEN	RNAV (RNP) Z RWY 16R	1	DENVER	CO		
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
5434	5326	RNAV (RNP) Z RWY 16R	ORIG	11/30/2023	8E	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV		12 JUNE 2025	ROUTINE			

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>
TSHNR	IAF	PECIY		TF	FB	1.00	153.97	4.46	11500
KIPPR	IAF	HAYLY		TF	FB	1.00	248.52	4.63	12000
HAYLY		PECIY		TF	FB	1.00	214.81	3.79	11500
PECIY		BUDUJ		TF	FB	1.00	169.60	2.36	10600
BUDUJ		ZOREG		TF	FB	1.00	169.60	2.41	10000
KAILE	IAF	OGINE		TF	FB	1.00	116.15	1.90	10400
OGINE		ZOREG		TF	FB	1.00	150.18	2.58	10000
ZOREG		HAROS		TF	FB	1.00	169.60	2.65	10000
HAROS	IF	BRDOR		TF	FB	1.00	169.44	3.96	9000
BRDOR		FESKA		TF	FB	1.00	169.71	3.74	8000
FESKA		APASE	PFAF	TF	FB	1.00	169.17	3.15	7000
CLFFF	IF	HELBY		TF	FB	1.00	352.54	3.40	10000
HELBY		APASE	PFAF	RF	FB	1.00	(3.18 NM RADIUS CW (CFFVZ))	9.83	7000
APASE	PFAF	UJNOR	MAP	TF	FO	0.30	169.51	5.10	
UJNOR	MAP	5900 MSL		CA			169.51		5900
5900 MSL		BINBE		DF	FO	1.00			10000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 THEN CLIMBING RIGHT TURN TO 10000 DIRECT BINBE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 10000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
26
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT APASE														
3.	FAC:	169.51	PFAF:	APASE	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	APASE 7000													
5.	DIST TO THLD FROM PFAF:	5.10	MM:	IM:	150 HAT:	271 HAT:	0.69	GS ANT:							
6.	MIN GP INCPT:	7000	GP ALT AT PFAF:	APASE 7000		OM:		MM:		IM:					
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR		TCH:	55.0						
8.	MSA FROM:	UJNOR 10200													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 4500.
CHART SPEED ICON IN PLANVIEW AT TSHNR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KIPPR: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT KAILE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT HAROS: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CLFFF: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 3.00 DEGREES.
HOLD E, RT, 257.46 INBOUND.
CHART MANDATORY 13000 AT TSHNR.
CHART MANDATORY 12000 AT KIPPR.
CHART MANDATORY 11000 AT KAILE.
CHART MANDATORY 11000 AT CLFFF.
FAC CROSSES RWY C/L EXTENDED 2600 FT FROM THLD.

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 0.30 DA	5597	2400	271	5597	2400	271	5597	2400	271	5597	2400	271			



CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED THE LEG BEGINNING AT HAROS FROM "HAROS TO APASE, COURSE 169.45, DISTANCE 10.85, ALTITUDE 7000" TO "HAROS TO BRDOR, COURSE 169.44, DISTANCE 3.96, ALTITUDE 9000" - ATC REQUESTED SDFS TO IMPROVE SEPARATION.
2. TERMINAL ROUTES: ADDED INTERMEDIATE STEPDOWN LEG "BRDOR TO FESKA, COURSE 169.71, DISTANCE 3.74, ALTITUDE 8000" - ATC REQUESTED SDFS TO IMPROVE SEPARATION
3. TERMINAL ROUTES: ADDED INTERMEDIATE STEPDOWN LEG "FESKA TO APASE, COURSE 169.17, DISTANCE 3.15, ALTITUDE 7000" - ATC REQUESTED SDFS TO IMPROVE SEPARATION
4. MISSED APPROACH: MAP CHANGED FROM RNP: UJNOR TO RNP: DA – CRITERIA REQUIREMENT: ON VERTICALLY GUIDED PROCEDURES THE DA ESTABLISHES THE MAP; FOR RNAV (RNP) ENTER "RNP: DA." 8260.19J 8-6-6 C.
5. NOTES: CHART NOTE: CHANGED FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -24°C OR ABOVE 54°C" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -25°C OR ABOVE 54°C" - 5-YEAR HISTORY (2019-2023) LOWERED THE CRITICAL LOW TEMPERATURE.
6. NOTES: RNP 0.30 ALL CATS DA AND HAT CHANGED FROM "5596/ 270" TO "5597/ 271" – NEW CRITICAL LOW TEMPERATURE INCREASED THE VERTICAL ERROR BUDGET REQUIRING A 21 FOOT ADJUSTMENT.
7. PROFILE: LINE 5 HAT CHANGED FROM 270 TO 271 - NEW CRITICAL LOW TEMPERATURE INCREASED THE VERTICAL ERROR BUDGET REQUIRING A 21 FOOT ADJUSTMENT.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☒

HAI

☐

NBAA

☒

OTHER: ZDV, DEN APP CON, DEN ATCT, AMGR

FLIGHT CHECKED BY

JEREMY C LEIGHTON

Digitally signed by
RAKE MCGRAW
Feb 25, 2025

OFFICE

AJF

DATE

01/08/2025

DEVELOPED BY

DUSTIN HARDISON

Digitally signed by
DUSTIN W HARDISON
Nov 19, 2024

OFFICE

AJV-A422

DATE

09/04/2024

APPROVED BY

RAKE MCGRAW

Digitally signed by
RAKE MCGRAW
Feb 25, 2025

OFFICE

AJV-A422

DATE

TITLE

MANAGER

