

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (GPS) 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> IKV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> ANKENY	<u>STATE</u> IA
<u>AIRPORT ELEVATION</u> 910	<u>TDZE</u> 903	<u>SUPERSEDED</u> RNAV (GPS) RWY 18	<u>DATED</u> 01/05/2017	<u>MAG VAR</u> 3E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> 2	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2000
		<u>ACTUAL EFFECTIVE DATE</u> 21 MARCH 2024	<u>CANCEL/SUSPEND</u>	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TNU VOR/DME		BALVE		TF	FO	1.00	290.00	22.22	4000
ZEMET		JOGPI		TF	FB	1.00	064.31	11.77	4000
JOGPI	IAF	BALVE	NOPT	TF	FB	1.00	131.74	6.98	4000
NEVAD	IAF	BALVE	NOPT	TF	FB	1.00	189.71	5.44	4000
BALVE	IF/IAF	COSED		TF	FB	1.00	177.00	6.08	3400
COSED	FAF	ZUKUK/2.50 NM TO RW18		TF	FB	0.30	177.04	5.21	
ZUKUK/2.50 NM TO RW18		RW18	MAP	TF	FO	0.30	177.04	2.50	
RW18	MAP	1600 MSL		CA			177.04		1600
1600 MSL		TNU VOR/DME		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 4000 DIRECT TNU VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. HOLD N BALVE, RT, 177.00 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAC: 177.04

FAC: COSED

DIST FAF TO MAP: 7.71

DIST FAF TO THLD: 7.71
4. MIN ALT: BALVE 4000, COSED 3400, ZUKUK/2.50 NM TO RW18 1740
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.66

GS ANT:
6. MIN GP INCPT: 3400

GP ALT AT PFAF: COSED 3400

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 40.0
8. MSA FROM: RW18 4000



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TNU VOR/DME AIRWAY RADIALS 227 CW 259.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NEVAD ON V13-161 NORTHBOUND.

**ADDITIONAL FLIGHT DATA:**

HOLD NE, RT, 226.61 INBOUND.  
CHART FAS OBST: 1028 TREE (19-044723) 414226N/0933314W.  
CHART 1034 TREE 414436N/0933311W.  
CHART VDP AT 1.68 NM TO RW18.  
WAAS CHANNEL # 82720  
REFERENCE PATH ID: W18A  
CHART CIRCLING ICON.  
LTP HAE: 244.1 M

**MINIMUMS:****TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD; STANDARD - CAT D 900-2 3/4

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
LPV DA	1153	3/4	250	1153	3/4	250	1153	3/4	250	1153	3/4	250			
LNAV/VNAV DA	1354	1 3/8	451	1354	1 3/8	451	1354	1 3/8	451	1354	1 3/8	451			
LNAV MDA	1480	1	577	1480	1	577	1480	1 5/8	577	1480	1 5/8	577			
CIRCLING	1560	1	650	1560	1	650	1560	1 3/4	650	1760	2 3/4	850			

**CHANGES - REASONS**

1. UPDATED RNP VALUE FOR TNU VOR/DME TO BALVE SEGMENT FROM 2.00 TO 1.00 - UPDATED TO CURRENT AJV-DIRECTED CRITERIA.
2. UPDATED RNP VALUE FOR ZEMET TO JOGPI SEGMENT FROM 2.00 TO 1.00 - UPDATED TO CURRENT AJV-DIRECTED CRITERIA.
3. REMOVED NOTE "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZEMET ON V505 SOUTHEAST BOUND" - V505 CANCELED.
4. ADDED "MAX 6000" TO PROFILE LINE 2 - IAW 8260.19I PARA 8-6-7.B (2).
5. ADDED "20:1: IS CLEAR" TO PROFILE LINE 7 - IAW 8260.19I PARA 8-6-7.G (3).
6. REMOVED "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED "RNP APCH – GPS" TO PBN REQUIREMENTS NOTE - IAW 8260.19I PARA 8-6-8.B (2).
7. AMENDED PROFILE LINE 4 FROM "ZUKUK/2.50 NM TO RW18 1740" TO "ZUKUK/2.50 NM TO RW18 1740" - PER CURRENT CRITERIA.
8. AMENDED AND RELOCATED "DISTANCE TO THLD FROM 250 HAT: 0.66 NM" FROM ADDITIONAL FLIGHT DATA TO "DISTANCE TO THLD FROM 250 HAT: 0.66" TO PROFILE LINE 5 - 8260.19I PARA 8-6-7.E (3).
9. AMENDED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C (-5°F) OR ABOVE 54°C (130°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C" - IAW 8260.19I PARA 8-6-9.R.
10. AMENDED ADDITIONAL FLIGHT DATA NOTE FROM "CHART VDP AT 1.68 MILES TO RW18" TO "CHART VDP AT 1.68 NM TO RW18" - IAW 8260.19I PARA 8-6-10.M.
11. REMOVED "LNAV ONLY" FROM ADDITIONAL FLIGHT DATA - PER CURRENT CRITERIA.
12. AMENDED LPV ALL CATS VIS FROM "7/8" TO "3/4" - IAW 8260.3E TABLE 3-3-1.
13. AMENDED LNAV/VNAV ALL CATS VIS FROM "1 1/2" TO "1 3/8" - IAW 8260.3E TABLE 3-3-1.
14. NOTES: REMOVED "CHART NOTE: CIRCLING RWY 22 NA AT NIGHT." – 20:1 IS CLEAR.
15. NOTES: CHANGED "CHART PLANVIEW NOTE: NOPT FOR ARRIVAL ON TNU VOR/DME AIRWAY RADIALS 031 CW 081." TO "PROCEDURE NA FOR ARRIVAL ON TNU VOR/DME AIRWAY RADIALS 227 CW 259." – PREVIOUS AMDT INCORRECT TURN EXCEEDED 90 DEGREES.

COORDINATED WITH:

A4A

☐

ALPA

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AOPA

☐

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZAU, DSM ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

DATE

Digitally signed by  
ERIC N SUSKI  
Feb 02, 2024

DEVELOPED BY

Digitally signed by

ERIC N SUSKI (CURTIS MALONE) ERIC N SUSKI  
Feb 02, 2024

OFFICE

DATE

AJV-A431 07/06/2023

APPROVED BY

Digitally signed by

ERIC N SUSKI ERIC N SUSKI  
Feb 02, 2024

OFFICE

DATE

AJV-A431

TITLE  
MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD

DATA

OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

0  
0  
KIKV  
RW18  
0  
0  
W18A  
414151.5455N  
0933356.9625W  
+02441  
414022.4040N  
0933357.0380W  
00040.0  
F  
03.00  
106.75  
1072  
40.0  
50.0

CRC REMAINDER

AC78ECB1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE  
LTP ORTHOMETRIC HEIGHT  
FPAP ORTHOMETRIC HEIGHT

K3  
+02754  
+02754

