

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> KDSM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> DES MOINES	<u>STATE</u> IA		
<u>AIRPORT ELEVATION</u> 958	<u>TDZE</u> 933	<u>SUPERSEDED</u> RNAV (GPS) RWY 23	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> 08/10/2023	<u>CANCEL/SUSPEND</u>		

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 143/30 CW 323/30	NOPT	143/5 CW 323/5		4000
2. 143/5 CW 323/5		IOWAA	IF/IAF	3100
3. 323/30 CW 143/30		323/5 CW 143/5		4000
4. 323/5 CW 143/5		IOWAA	IF/IAF	3100

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>
IOWAA	IF/IAF	HERKY		TF	FB	1.00	232.97	6.57	2600
HERKY	FAF	TUPNE/3.10 NM TO RW23		TF	FB	0.30	232.90	1.96	
TUPNE/3.10 NM TO RW23		RW23	MAP	TF	FO	0.30	232.90	3.10	
RW23	MAP	1183 MSL		CA			232.90		
1183 MSL		DELAY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW23

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT DELAY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NE IOWAA, LT, 232.97 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAC: 232.90FAF: HERKYDIST FAF TO MAP: 5.06DIST FAF TO THLD: 5.06

4. MIN ALT: IOWAA 3100, HERKY 2600, TUPNE/3.10 NM TO RW23 1960

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.62GS ANT:

6. MIN GP INCPT: 2600GP ALT AT PFAF : HERKY 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 51.3

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 052.68 INBOUND.
CHART FAS OBST: 1061 TREE (19-031208) 413314N/0933753W.
CHART 1132 TOWER 413321N/0933605W.
CHART VDP AT 1.04 NM TO RW23.
WAAS CHANNEL # 97541
REFERENCE PATH ID: W23A
CHART CIRCLING ICON.
LTP HAE: 253.1 M

MINIMUMS:

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

ALTERNATE: NA☐ NA WHEN LOCAL WEATHER NOT AVAILABLE.; STANDARD - CAT D 900-2 1/2

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	1183	3/4	250	1183	3/4	250	1183	3/4	250	1183	3/4	250			
LNAV/VNAV DA	1334	1 1/8	401	1334	1 1/8	401	1334	1 1/8	401	1334	1 1/8	401		QUALITY 10 CHECKED	
LNAV MDA	1320	1	387	1320	1	387	1320	1 1/8	387	1320	1 1/8	387			
CIRCLING	1420	1	462	1420	1	462	1600	1 3/4	642	1760	2 1/2	802			

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDSM
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	413155.0295N
LTP/FTP LONGITUDE	0933941.3520W
LTP/FTP ELLIPSOIDAL HEIGHT	+02531
FPAP LATITUDE	413102.4130N
FPAP LONGITUDE	0934117.1075W
THRESHOLD CROSSING HEIGHT (TCH)	00051.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	05EB875F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02844
FPAP ORTHOMETRIC HEIGHT	+02844

