

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33										Bearings, headings, courses, 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 in feet RVR.									
TERMINAL ROUTES																	MISSED APPROACH									
FROM				TO				COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 3000 DIRECT DELAY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 052.68 INBOUND. CHART FAS OBST: 1067 TOWER 413251N/0933839W. CHART 1132 TOWER 413321N/0933605W. DISTANCE TO THLD FROM 303 HAT: 0.79 NM. CHART VDP AT 1.03 NM TO RW23* *LNAV ONLY. WAAS CHANNEL # 97541 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: 253.6 M												
IOWAA (IF/IAF)				HERKY (TF) (FB) (RNP 1.00)				232.97 / 5.96				2600														
HERKY (FAF)				TUPNE/2.50 NM TO RW23 (TF) (FB) (RNP 0.30)				232.90 / 2.56																		
TUPNE/2.50 NM TO RW23				RW23 (MAP) (TF) (FO) (RNP 0.30)				232.90 / 2.50																		
RW23 (MAP)				1242 MSL (CA)				232.90				3000														
1242 MSL				DELAY (DF) (FO) (RNP 1.00)																						
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) 3. FAC: 232.90 FAF: HERKY DIST FAF TO MAP: 5.06 THLD: 5.06 4. MIN. ALT: IOWAA 3100, HERKY 2600, TUPNE/2.50 NM TO RW23 1780* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2600 GS ALT AT: HERKY 2600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.6 34:1 IS NOT CLEAR 8. MSA FROM: _____																	MAG VAR: 1E					EPOCH YEAR: 2020				
MINIMUMS																										
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A			STANDARD @													
CATEGORY ==>		A			B			C			D			E												
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA											
LPV DA	1262	1	323	1262	1	323	1262	1	323	1262	1	323														
LNAV/VNAV DA	1242	7/8	303	1242	7/8	303	1242	7/8	303	1242	7/8	303														
LNAV MDA	1320	1	381	1320	1	381	1320	1 1/8	381	1320	1 1/8	381														
CIRCLING	1420	1	462	1420	1	462	1600	1 3/4	642	1760	2 1/2	802														
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). @ CAT D 900-2 1/2 CHART NOTE: RWY 23 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA.																										
CITY AND STATE				ELEVATION: 958 TDZE: 939				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:										
DES MOINES, IA				AIRPORT NAME:								RNAV (GPS) RWY 23, AMDT 1, 02/01/2018				AMDT: ORIG-A										
				DES MOINES INTL												DATED 06/10/2004										



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TAA

	FROM	TO	ALT
1.	143/30 CW 323/30 143/5 CW 323/5 (NOPT)	143/5 CW 323/5 IOWAA (IF/IAF) (FB)	4000 3100
2.	323/30 CW 143/30 323/5 CW 143/5	323/5 CW 143/5 IOWAA (IF/IAF) (FO)	4000 3100

QUALITY
16
CHECKED

CITY AND STATE DES MOINES, IA	ELEVATION: 958 TDZE: 939 AIRPORT NAME: DES MOINES INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1, 02/01/2018	SUP:
				AMDT: ORIG-A
				DATED: 06/10/2004

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

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	413216.6160N
LTP/FTP LONGITUDE	0933902.0435W
LTP/FTP ELLIPSOIDAL HEIGHT	+02536
FPAP LATITUDE	413124.0065N
FPAP LONGITUDE	0934037.8150W
THRESHOLD CROSSING HEIGHT (TCH)	00055.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 1F8447E2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02848
FPAP ORTHOMETRIC HEIGHT	+02848

QUALITY
16
CHECKED

CITY AND STATE DES MOINES, IA	ELEVATION: 958 AIRPORT NAME: DES MOINES INTL	TDZE: 939 	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1, 02/01/2018	SUP:
					AMDT: ORIG-A
					DATED: 06/10/2004