

**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.

**TERMINAL ROUTES**

**MISSED APPROACH**

FROM	TO	COURSE AND DISTANCE	ALTITUDE	
WATTY (IF/IAF)	CLIVE (TF) (FB) (RNP 1.00)	131.19 / 8.19	2600	LPV: DA LNAV/VNAV: DA LNAV: RW13
CLIVE (FAF)	TILTH/1.70 NM TO RW13 (TF) (FB) (RNP 0.30)	131.28 / 3.42		
TILTH/1.70 NM TO RW13	RW13 (MAP) (TF) (FO) (RNP 0.30)	131.28 / 1.70		CLIMB TO 3000 DIRECT CYCLN AND HOLD.
RW13 (MAP)	1122 MSL (CA)	131.28		
1122 MSL	CYCLN (DF) (FO) (RNP 1.00)		3000	

ADDITIONAL FLIGHT DATA:  
HOLD SE, RT, 311.46 INBOUND.  
CHART FAS OBST: 977 TREE 413308N/0934044W.  
DISTANCE TO THLD FROM 200 HAT: 0.48 NM.  
CHART VDP AT 0.86 NM TO RW13\*  
\*LNAV ONLY.  
WAAS CHANNEL # 72602  
REFERENCE PATH ID: W13A  
CHART CIRCLING ICON.  
LTP HAE: 246.8 M

- PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
- HOLD NW WATTY, LT, 131.19 INBOUND, 3500 FT. IN LIEU OF PT (IAF)
- FAC: 131.28 FAF: CLIVE DIST FAF TO MAP: 5.12 THLD: 5.12
- MIN. ALT: **WATTY 3500, CLIVE 2600, TILTH/1.70 NM TO RW13 1500\***
- DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
- MIN GS INCPT: 2600 GS ALT AT: CLIVE 2600 OM:        MM:        IM:
- GS ANGLE: 3.00 TCH: 56.2 20:1 IS CLEAR 34:1 IS CLEAR
- 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	1122	2400	200	1122	2400	200	1122	2400	200	1122	2400	200			
LNAV/VNAV DA	1172	2400	250	1172	2400	250	1172	2400	250	1172	2400	250			
LNAV MDA	1240	2400	318	1240	2400	318	1240	2400	318	1240	2400	318			
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: DME/DME RNP-0.3 NA.  
CHART NOTE: \*\*RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

(CONTINUED ON PAGE 2)

CITY AND STATE <b>DES MOINES, IA</b>	ELEVATION: 958 TDZE: 922 AIRPORT NAME: <b>DES MOINES INTL</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 13, AMDT 2, 02/01/2018</b>	SUP: AMDT: <b>1B</b> DATED <b>06/28/2012</b>
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**US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV - STANDARD**  
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**NOTES, (CONT.):**

**CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4000 AND LNAV CATS C AND D VISIBILITY TO RVR 4500.**

**TAA**

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	041/30 CW 221/30 (NOPT) 041/10 CW 221/10	041/10 CW 221/10 WATTY (IF/IAF) (FB)	4000 3500
2.	221/30 CW 041/30 221/10 CW 041/10	221/10 CW 041/10 WATTY (IF/IAF) (FO)	4000 3500



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*(This area is intentionally left blank for the instrument approach procedure content.)*



CITY AND STATE <b>DES MOINES, IA</b>	ELEVATION: <b>958</b> TDZE: <b>922</b> AIRPORT NAME: <b>DES MOINES INTL</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 13, AMDT 2, 02/01/2018</b>	SUP:
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QUALITY  
23  
CHECKED

CITY AND STATE <b>DES MOINES, IA</b>	ELEVATION: 958      TDZE: 922 AIRPORT NAME: <b>DES MOINES INTL</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 13, AMDT 2, 02/01/2018</b>	SUP:
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				DATED: <b>06/28/2012</b>

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

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**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDSM
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	413244.1805N
LTP/FTP LONGITUDE	0934028.0335W
LTP/FTP ELLIPSOIDAL HEIGHT	+02468
FPAP LATITUDE	413144.2755N
FPAP LONGITUDE	0933900.5590W
THRESHOLD CROSSING HEIGHT (TCH)	00056.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

**CRC REMAINDER** C8B60A7C

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02780
FPAP ORTHOMETRIC HEIGHT	+02780

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