

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29									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			ILS: DA LOC: 5.12 NM AFTER CLIVE/I-VGU 6.77 DME OR AT I-VGU 1.65 DME									
DSM VORTAC			WATTY INT/I-VGU 14.96 DME			317.53 / 18.97			3500			CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DSM VORTAC THEN ON DSM VORTAC R-254 TO MIDDLE INT/DSM 12.01 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 3000 THEN CLIMBING LEFT TURN TO 4000 ON HEADING 360 AND TNU R-259 TO ANKEN/TNU 22.00 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 073.94 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E ANKEN/TNU 22.00 DME, RT, 258.65 INBOUND. CHART FAS OBST: 977 TREE 413308N/0934044W. CHART VDP AT 2.50 DME* DISTANCE VDP TO THLD 0.86 NM. *LOC ONLY. CHART IN PLANVIEW: ANKEN/TNU 22.00 DME. CHART CIRCLING ICON. CHART IN PLANVIEW: TNU VOR/DME 35.63 DME AT WATTY									
GUMBO/TNU 31.14 DME			WATTY INT/I-VGU 14.96 DME			258.65 / 4.49 (TNU R-259)			3500												
WATTY INT/I-VGU 14.96 DME (IF/IAF)			CLIVE/I-VGU 6.77 DME			131.34 / 8.19 (I-VGU)			2600												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)													MAG VAR: 1E EPOCH YEAR: 2020								
2. HOLD NW WATTY, LT, 131.34 INBOUND, 3500 FT. IN LIEU OF PT (IAF)																					
3. FAC: 131.34 FAF: CLIVE/I-VGU 6.77 DME DIST FAF TO MAP: 5.12 THLD: 5.12																					
4. MIN. ALT: WATTY 3500, CLIVE 2600, TILTH/I-VGU 3.35 DME 1440*																					
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 982																					
6. MIN GS INCPT: 2600 GS ALT AT: CLIVE OM: - MM: - IM: -																					
7. GS ANGLE: 3.00 TCH: 56.2																					
8. MSA FROM: DSM VORTAC 060-330 2800, 330-060 4000																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD			LOC: 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						
S-ILS 13**	1122	2400	200	1122	2400	200	1122	2400	200	1122	2400	200									
S-LOC 13	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: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. @ CAT D 900-2 1/2 CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GUMBO ON V172 EAST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DSM VORTAC AIRWAY RADIALS 288 CW 001. CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 13 CATS C/D VISIBILITY TO RVR 4500.																					
CITY AND STATE DES MOINES, IA			ELEVATION: 958 TDZE: 922 AIRPORT NAME: DES MOINES INTL				FACILITY IDENTIFIER: I-VGU		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 13, AMDT 10, 02/01/2018						SUP: AMDT: 9B DATED 08/23/2012						



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