

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 4.37 NM AFTER FOREM INT/I-DSM 5.97 DME OR AT I-DSM 1.61 DME CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 180 AND ON DSM VORTAC R-254 TO MIDLE INT/12.01 DME AND HOLD. ALTERNATE MA (DO NOT CHART): CLIMB TO 4000 THEN RIGHT TURN ON HEADING 107 AND TNU VOR/DME R-259 TO ANKEN/TNU VOR/DME 22.00 DME AND HOLD (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD W, RT, 073.94 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E ANKEN/TNU VOR/DME 22.00 DME, RT, 258.65 INBOUND. FAS OBST: 1090 AAO 412855N/0933537W. CHART VDP AT 2.63 DME* DISTANCE VDP TO THLD 1.02 NM. *LOC ONLY. CHART IN PLANVIEW: ANKEN/TNU VOR/DME 22.00 DME. CHART CIRCLING ICON.											
TNU VOR/DME	CYCLN INT/I-DSM 11.93 DME	214.11 / 27.85	3000												
DSM VORTAC	CYCLN INT/I-DSM 11.93 DME	094.04 / 7.70	3000												
CYCLN INT/I-DSM 11.93 DME (IF/IAF)	FOREM INT/I-DSM 5.97 DME	311.35 / 5.95 (I-DSM)	2400												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SE CYCLN, RT, 311.35 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 311.35 FAF: FOREM INT/I-DSM 5.97 DME DIST FAF TO MAP: 4.37 THLD: 4.37 4. MIN. ALT: CYCLN 3000, FOREM 2400 5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: 925 150 HAT: 1872 100 HAT: 918 GS ANT: 1103 6. MIN GS INCPT: 2400 GS ALT AT: FOREM 2400 OM: _____ - _____ MM: _____ - _____ IM: 1058 7. GS ANGLE: 3.00 TCH: 52.4 8. MSA FROM: DSM VORTAC 060-330 2800, 330-060 4000				MAG VAR: 1E EPOCH YEAR: 2020											
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 31	1158	1800	200	1158	1800	200	1158	1800	200	1158	1800	200	1158	1800	200
S-LOC 31	1340	2400	382	1340	2400	382	1340	3500	382	1340	3500	382	1340	3500	382
CIRCLING	1420	1	462	1420	1	462	1600	1 1/2	642	1760	2 1/2	802	1760	2 3/4	802
NOTES: SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 159, @ CAT D 900-2 1/2, CAT E 900-2 3/4 RVR 1400, HAT 150, DA 1108 MSL. CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT A, B, C, D, RA 101, RVR 1200, HAT 100, DA 1058 MSL. (CONTINUED ON PAGE 2)															
CITY AND STATE		ELEVATION: 958 TDZE: 958		FACILITY IDENTIFIER: I-DSM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
DES MOINES, IA		AIRPORT NAME:		DES MOINES INTL		ILS OR LOC RWY 31, AMDT 24, 02/01/2018; ILS RWY 31 (SA CAT I), ILS RWY 31 (CAT II), ILS RWY 31 (CAT III)				AMDT: 23C					
										DATED 03/02/2017					

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.

NOTES, (CONT.):
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 31: CAT III CAT A, B, C, D, RVR 600.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TNU VOR/DME AIRWAY RADIALS 227 CW 259.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DSM VORTAC AIRWAY RADIALS 042 CW 141.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 31 CAT E VISIBILITY TO RVR 4000 AND INCREASE S-LOC 31 CAT E VISIBILITY TO RVR 6000.

QUALITY
23
CHECKED

CITY AND STATE DES MOINES, IA	ELEVATION: 958 AIRPORT NAME: DES MOINES INTL	TDZE: 958	FACILITY IDENTIFIER: I-DSM	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 31, AMDT 24, 02/01/2018; ILS RWY 31 (SA CAT I), ILS RWY 31 (CAT II), ILS RWY 31 (CAT III)	SUP:
					AMDT: 23C
					DATED: 03/02/2017