

**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
HASTI INT/I-MSP 19.43 DME (IAF)	PINKE INT/I-MSP 16.30 DME	301.36 / 3.14 (I-MSP)	6000	CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT GEP VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 147 AND ON MSP VOR/DME R-096 TO KANAC INT/MSP 13.13 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 117.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E KANAC INT/MSP 13.13 DME, RT, 275.59 INBOUND. CHART IN PLANVIEW: KANAC INT/MSP 13.13 DME.
PINKE INT/I-MSP 16.30 DME	PIGZI INT/I-MSP 13.16 DME	301.36 / 3.14 (I-MSP)	5000	
PIGZI INT/I-MSP 13.16 DME (IF)	AABEZ INT/I-MSP 10.02 DME	301.36 / 3.14 (I-MSP)	4000	
AABEZ INT/I-MSP 10.02 DME	NARCO INT/I-MSP 6.88 DME	301.36 / 3.14 (I-MSP)	3000	

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT HASTI
3. FAC: 301.36 FAF: DIST FAF TO MAP: THLD:
4. MIN. ALT: HASTI 7000, PINKE 6000, PIGZI 5000, AABEZ 4000, NARCO 3000
5. DIST TO THLD FROM OM: 6.69 MM: - IM: 1019 150 HAT: - 100 HAT: - GS ANT: 1102
6. MIN GS INCPT: 3000 GS ALT AT: NARCO 3000 OM: - MM: - IM: 922
7. GS ANGLE: 3.00 TCH: 54.6
8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500

MAG VAR: 0E EPOCH YEAR: 2015

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X					
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 30L	1173	4000	350	1173	4000	350	1173	4000	350	1173	4000	350	1173	4000	350		

NOTES:
 CHART PLANVIEW NOTE: RADAR REQUIRED.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
 CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE VISIBILITY ALL CATS TO 1 1/8 MILE.
 CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS V RWY 35 (CONVERGING).
 CHART PROFILE NOTE: USE I-MSP DME WHEN ON THE LOCALIZER COURSE.



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842 TDZE: 823	FACILITY IDENTIFIER: I-MSP	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS V RWY 30L (CONVERGING), AMDT 2 5 MARCH 2015	SUP: CONVERGING ILS RWY 30L
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			AMDT: 1
				DATED 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - 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.
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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HASTI	HASTI	010	IAF	IF		FB				AA 07000	
	HASTI	PINKE	020		TF		FB				AA 06000	
	HASTI	PIGZI	030		TF		FB				AA 05000	
	HASTI	AABEZ	040		CF		FB		301.4()	003.1	AA 04000	
		AABEZ	010	FACF	IF		FB				AA 04000	GI 03000
		NARCO	020	FAF	CF		FB		301.0()	003.1	GI 03000	GS 03000
		RW30L	030	MAP	CF		FO		301.0()	006.7	AT 00869	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		301.4()		AA 01300	
	GEP	050		DF		FO				AA 03000	
	GEP	060		HM	L	FO		117.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	GEP	N450844.47	W0932223.45	N4508.741	W09322.391
	MSP	N445347.40	W0931411.53	N4453.790	W09314.192
	IMSP (DME)	N445226.93	W0931220.56	N4452.449	W09312.343
	AABEZ	N444717.10	W0930016.96	N4447.285	W09300.283
	HASTI	N444221.30	W0924901.33	N4442.355	W09249.022
	NARCO	N444855.46	W0930402.61	N4448.924	W09304.044
	PIGZI	N444538.62	W0925631.53	N4445.644	W09256.526
	PINKE	N444400.02	W0925246.32	N4444.000	W09252.772
	RW30L	N445224.68	W0931204.27	N4452.411	W09312.071
	IMSP (LOC)	N445322.46	W0931417.70	N4453.374	W09314.295

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30L	00814	55



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