


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: 6.62 MILES AFTER KINNS INT/I-HKZ 8.08 DME/RADAR OR AT I-HKZ 1.46 DME FIX CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FGT VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FCM VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 358.03 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FCM VOR/DME, RT, 085.00 INBOUND. CHART FAS OBST: 949 TOWER 445330N/0931505W CHART VDP AT 2.50 DME* ; DISTANCE VDP TO THLD 1.04 MILES. *LOC ONLY. CHART IN PLANVIEW: FCM VOR/DME. CHART CIRCLING ICON.							
PAETN INT/I-HKZ 20.64 DME (IAF)		UTHNK INT/I-HKZ 17.50 DME		121.33 / 3.14 (I-HKZ)				6000									
UTHNK INT/I-HKZ 17.50 DME		WAYZA INT/I-HKZ 14.36 DME		121.33 / 3.14 (I-HKZ)				5000									
WAYZA INT/I-HKZ 14.36 DME (IF)		ZESTY INT/I-HKZ 11.22 DME/RADAR		121.33 / 3.14 (I-HKZ)				4000									
ZESTY INT/I-HKZ 11.22 DME/RADAR		KINNS INT/I-HKZ 8.08 DME/RADAR		121.33 / 3.14 (I-HKZ)				3000									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT PAETN 3. FAC: <u>121.33</u> FAF: KINNS INT/I-HKZ 8.08 DME/RADAR DIST FAF TO MAP: <u>6.62</u> THLD: <u>6.62</u> 4. MIN. ALT: PAETN 7000, UTHNK 6000, WAYZA 5000, ZESTY 4000, KINNS 3000, WABBS/3.16 DME/RADAR 1420* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>859</u> 150 HAT: <u>1910</u> 100 HAT: <u>957</u> GS ANT: <u>1029</u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: KINNS 3000 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>937</u> 7. GS ANGLE: <u>3.00</u> TCH: 50.0 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		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 12R	1042	1800	200	1042	1800	200	1042	1800	200	1042	1800	200	1042	1800	200		
S-LOC 12R	1420	2400	578	1420	2400	578	1420	1 1/4	578	1420	1 1/4	578	1420	1 1/4	578		
CIRCLING	1420	1	578	1420	1	578	1460	1 3/4	618	1660	2 3/4	818	1800	3	958		
WABBS FIX MINIMUMS																	
S-LOC 12R	1240	2400	398	1240	2400	398	1240	3500	398	1240	3500	398	1240	3500	398		
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958		
NOTES: SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12R: CAT A, B, C, D, RA 168, RVR 1400, HAT 150, DA 992 MSL. CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12R: CAT A, B, C, D, RA 102, RVR 1200, HAT 100, DA 942 MSL.(SEE FORM 8260-10)																	
CITY AND STATE		ELEVATION: 842 TDZE: 842				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
MINNEAPOLIS, MN		AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				I-HKZ		ILS OR LOC RWY 12R, AMDT 11 3/5/2015 ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II) , ILS RWY 12R (CAT III)				AMDT: 10A					
												DATED 06/27/2013					



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.		
<p>NOTES, (CONT.):</p> <p><u>CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED.</u> S-ILS- 12R: CAT IIIa CAT A,B,C,D, RVR 600. CAT IIIb NA. CAT IIIc NA.</p> <p>CHART PLANVIEW NOTE: RADAR REQUIRED.</p> <p>CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.</p> <p>CHART NOTE: FOR INOPERATIVE ALSF-1, INCREASE S-ILS 12R CAT E VISIBILITY TO RVR 4000, AND S-LOC 12R CAT E VISIBILITY TO 1 5/8.</p> <p>CHART NOTE: WABBS FIX MINIMUMS: FOR INOPERATIVE ALSF-1, INCREASE S-LOC 12R CAT E VISIBILITY TO RVR 6000.</p> <p>CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12L.</p> <p>SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.</p> <p>CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.</p>					
CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN	TDZE: 842	FACILITY IDENTIFIER: I-HKZ	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
				ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10
				ILS RWY 12R (SA CAT I)	DATED: 06/27/2013
ILS RWY 12R (CAT II) , ILS RWY 12R (CAT III)					




U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								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.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB				AA 07000	
	PAETN	UTHNK	020		TF		FB				AA 06000	
	PAETN	WAYZA	030		TF		FB				AA 05000	
	PAETN	ZESTY	040		CF		FB		121.3 ()	003.1	AA 04000	
		ZESTY	010	FACF	IF		FB				AA 04000	GI 03000
		KINNS	020	FAF	CF		FB		121.0 ()	003.1	GI 03000	GS 03000
		RW12R	030	MAP	CF		FO		121.0 ()	006.6	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		FGT	050		DF		FO				AA 03000	
		FGT	060		HM	R	FO		358.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS			LAT IN MINS		LONG IN MINS	
		FGT	N443751.40			W0931055.39			N4437.857		W09310.923	
		MSP	N445347.40			W0931411.53			N4453.790		W09314.192	
		KINNS	N445642.28			W0932200.56			N4456.705		W09322.009	
		PAETN	N450311.97			W0933709.39			N4503.200		W09337.157	
		UTHNK	N450134.74			W0933321.87			N4501.579		W09333.365	
		WAYZA	N445957.38			W0932934.57			N4459.956		W09329.576	
		ZESTY	N445819.89			W0932547.46			N4458.332		W09325.791	
		RW12R	N445316.04			W0931402.87			N4453.267		W09314.048	
		IHKZ (LOC)	N445220.38			W0931154.35			N4452.340		W09311.906	
RUNWAY DATA			THRESHOLD									
	RWY	ELEVATION		TCH								
	RW12R	00842		50								



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-HKZ	ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10A
				ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II), ILS RWY 12R (CAT III)	DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								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.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB				AA 07000	
	PAETN	UTHNK	020		TF		FB				AA 06000	
	PAETN	WAYZA	030		TF		FB				AA 05000	
	PAETN	ZESTY	040		CF		FB		121.3 ()	003.1	AA 04000	
		ZESTY	010	FACF	IF		FB				AA 04000	
		KINNS	020	FAF	CF		FB		121.0 ()	003.1	AA 03000	
		WABBS	021	SDF	CF		FB		121.0 ()	004.9	AA 01420	
		RW12R	030	MAP	CF		FO		121.0 ()	001.7	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		FGT	050		DF		FO				AA 03000	
		FGT	060		HM	R	FO		358.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		FGT	N443751.40		W0931055.39		N4437.857		W09310.923			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		KINNS	N445642.28		W0932200.56		N4456.705		W09322.009			
		PAETN	N450311.97		W0933709.39		N4503.200		W09337.157			
		UTHNK	N450134.74		W0933321.87		N4501.579		W09333.365			
		WABBS	N445409.07		W0931605.43		N4454.151		W09316.091			
		WAYZA	N445957.38		W0932934.57		N4459.956		W09329.576			
		ZESTY	N445819.89		W0932547.46		N4458.332		W09325.791			
		RW12R	N445316.04		W0931402.87		N4453.267		W09314.048			
		IHKZ (LOC)	N445220.38		W0931154.35		N4452.340		W09311.906			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12R	00842		50							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-HKZ	ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10A
				ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II), ILS RWY 12R (CAT III)	DATED: 06/27/2013