

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: 5.32 MILES AFTER HULKA INT/I-DWC 5.16 DME/RADAR OR AT I-DWC 0.17 DME FIX CLIMB TO 3000 ON HEADING 215 AND CRL VORTAC R-025 TO CRL VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 3000 DIRECT JZJ NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD S, RT, 016.00 INBOUND. CHART FAS OBST: 785 TOWER 421919N/0831742W CHART VDP AT 1.06 DME* DISTANCE VDP TO THLD 1.23 MILES. *LOC ONLY. CHART IN PLANVIEW: JZJ NDB. CHART IN PROFILE: I-DWC DME ANTENNA.											
DRBRN/19.55 DME/RADAR (IAF)	BHOLD/16.56 DME/RADAR	214.71 / 2.99 (I-DWC)	6000												
BHOLD/16.56 DME/RADAR	LUPAY/13.52 DME/RADAR	214.71 / 3.03 (I-DWC)	5000												
LUPAY/13.52 DME/RADAR	OSKER/10.44 DME/RADAR	214.71 / 3.09 (I-DWC)	4000												
OSKER/10.44 DME/RADAR (IF)	ROUGE/7.30 DME/RADAR	214.71 / 3.14 (I-DWC)	3000												
ROUGE/7.30 DME/RADAR	HULKA INT/5.16 DME/RADAR	214.71 / 2.14 (I-DWC)	2300												
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 DRBRN 3. FAC: <u>214.71</u> FAF: <u>HULKA INT/5.16 DME/RADAR</u> DIST FAF TO MAP: <u>5.32</u> THLD: <u>5.32</u> 4. MIN. ALT: BHOLD 6000, LUPAY 5000, OSKER 4000, ROUGE 3000, HULKA 2300 5. DIST TO THLD FROM OM: <u>5.32</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>1932</u> 100 HAT: <u>928</u> GS ANT: <u>1201</u> 6. MIN GS INCPT: <u>2300</u> GS ALT AT: <u>HULKA 2300</u> OM: <u>-</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>2.85</u> TCH: <u>54.0</u> 8. MSA FROM: <u>DXO VOR/DME 2800</u>				MAG VAR: 6W EPOCH YEAR: 1990											
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 22L**	837	2400	200	837	2400	200	837	2400	200	837	2400	200			
S-LOC 22L	1080	2400	443	1080	2400	443	1080	4500	443	1080	4500	443			
CIRCLING	1200	1	555	1200	1	555	1200	1 1/2	555	1200	2	555			
NOTES: SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 22L: CAT A, B, C, D, RA 148, RVR 1400, HAT 150, DA 787 MSL. SA CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 22L: CAT A, B, C, D, RA 98, RVR 1200, HAT 100, DA 737 MSL. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 645 TDZE: 637		FACILITY IDENTIFIER: I-DWC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
DETROIT, MI		AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY				ILS OR LOC RWY 22L, AMDT 30A ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II) 18 SEPTEMBER 2014				AMDT: 30					
										DATED 12/12/2013					

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.

NOTES, (CONT.):
CHART NOTE: DME OR RADAR REQUIRED.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 21L.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

QUALITY
6
CHECKED

CITY AND STATE DETROIT, MI	ELEVATION: 645 TDZE: 637 AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	FACILITY IDENTIFIER: I-DWC	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 22L, AMDT 30A ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II) 18 SEPTEMBER 2014	SUP:
				AMDT: 30
				DATED: 12/12/2013

FLIGHT STANDARDS SERVICES - FAR 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.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KDTWK5FI22L	ADBRN	010DRBRNK5PC0E	A	IF					18000		0	NS
SUSAP	KDTWK5FI22L	ADBRN	020BHOLDK5PC0E		TF			+	06000			0	NS
SUSAP	KDTWK5FI22L	ADBRN	030LUPAYK5PC0E		TF			+	05000			0	NS
SUSAP	KDTWK5FI22L	ADBRN	040OSKERK5PC0E	B	TF			+	04000			0	NS
SUSAP	KDTWK5FI22L	ADBRN	050ROUGEK5PC0EE		CF	IDWCK5	0347009621470031PI	+	03000			0	NS
SUSAP	KDTWK5FI22L	I	010ROUGEK5PC0E	I	IF	IDWCK5	03470096	PI	J	030000230018000		0	NS
SUSAP	KDTWK5FI22L	I	020HULKAK5PC0E	F	CF	IDWCK5	0347007521500021PI	H	0230002300		-285DXO	K5D	0 NS
SUSAP	KDTWK5FI22L	I	030RW22LK5PGOGY	M	CF	IDWCK5	0347002121500053PI		00690		-285		0 NS
SUSAP	KDTWK5FI22L	I	040	0	M	VI	2150						0 NS
SUSAP	KDTWK5FI22L	I	050CRL	K5D	Ovy	CF	CRL K5	0000000020500100D	+	03000			0 NS
SUSAP	KDTWK5FI22L	I	060CRL	K5D	Ove	R	HM	0160T010	+	03000			0 NS

[illegible][illegible]

SUP:	
AMDT:	30
DATED:	12/12/2013

FLIGHT STANDARDS SERVICES - FAR 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.

SUSAP KDTWK5IIDWC1 011070RW22LN42115954W0832223062147N42134386W0832112291019 12010308285W00606000636

[illegible]

SUSAP KDTWK5SDXO K5D

0 18018002825

M

SUP:	
AMDT:	30
DATED:	12/12/2013

QUALITY
12
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR 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.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DRBRN	DRBRN	010	IAF	IF		FB					
	DRBRN	BHOLD	020		TF		FB				AA 06000	
	DRBRN	LUPAY	030		TF		FB				AA 05000	
	DRBRN	OSKER	040		TF		FB				AA 04000	
	DRBRN	ROUGE	050		CF		FB		214.7()	003.1	AA 03000	
		ROUGE	010	FACF	IF		FB				AA 03000 GI 02300	
		HULKA	020	FAF	CF		FB		215.0()	002.1	GI 02300 GS 02300	
		RW22L	030	MAP	CF		FO		215.0()	005.3	AT 00690	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		VI		FB		215.0()			
	CRL	050		CF		FO		205.0()	010.0	AA 03000	
	CRL	060		HM	R	FO		016.0()	001.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CRL	N420252.89	W0832727.29	N4202.882	W08327.455
	DXO	N421247.29	W0832159.99	N4212.788	W08322.000
	IDWC (DME)	N421359.69	W0832050.36	N4213.995	W08320.839
	BHOLD	N422832.24	W0831008.61	N4228.537	W08310.144
	DRBRN	N423109.24	W0830811.76	N4231.154	W08308.196
	HULKA	N421832.53	W0831733.20	N4218.542	W08317.553
	LUPAY	N422552.65	W0831207.18	N4225.878	W08312.120
	OSKER	N422310.35	W0831407.58	N4223.173	W08314.126
	ROUGE	N422025.19	W0831609.89	N4220.420	W08316.165
	RW22L	N421352.37	W0832059.97	N4213.873	W08321.000
	IDWC (LOC)	N421159.54	W0832223.06	N4211.992	W08322.384

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW22L	00636	60

QUALITY
12
CHECKED

CITY AND STATE DETROIT, MI	ELEVATION: 645	TDZE: 637	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY		I-DWC	ILS OR LOC RWY 22L, AMDT 30A	AMDT: 30
				ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II)	DATED: 12/12/2013
				18 SEPTEMBER 2014	

FLIGHT STANDARDS SERVICES - FAR PART 97.25

ARINC PACKET - 424-18 - LOC

[illegible]

SUP:	CHECKED
AMDT:	30
DATED:	12/12/2013

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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.

SUSAP KDTWK5IIDWC1 011070RW22LN42115954W0832223062147N42134386W0832112291019 12010308285W00606000636

[illegible]

QUALITY
12
CHECKER

CITY AND STATE DETROIT, MI	ELEVATION: 645	TDZE: 637	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			ILS OR LOC RWY 22L, AMDT 30A	AMDT: 30
	DETROIT METROPOLITAN WAYNE COUNTY		I-DWC	ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II) 18 SEPTEMBER 2014	DATED: 12/12/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

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.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DRBRN	DRBRN	010	IAF	IF		FB					
	DRBRN	BHOLD	020		TF		FB				AA 06000	
	DRBRN	LUPAY	030		TF		FB				AA 05000	
	DRBRN	OSKER	040		TF		FB				AA 04000	
	DRBRN	ROUGE	050		CF		FB		214.7 ()	003.1	AA 03000	
		ROUGE	010	FACF	IF		FB				AA 03000	
		HULKA	020	FAF	CF		FB		215.0 ()	002.1	AA 02300	
		RW22L	030	MAP	CF		FO		215.0 ()	005.3	AT 00690	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		VI		FB		215.0 ()			
	CRL	050		CF		FO		205.0 ()	010.0	AA 03000	
	CRL	060		HM	R	FO		016.0 ()	001.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CRL	N420252.89	W0832727.29	N4202.882	W08327.455
	DXO	N421247.29	W0832159.99	N4212.788	W08322.000
	IDWC (DME)	N421359.69	W0832050.36	N4213.995	W08320.839
	BHOLD	N422832.24	W0831008.61	N4228.537	W08310.144
	DRBRN	N423109.24	W0830811.76	N4231.154	W08308.196
	HULKA	N421832.53	W0831733.20	N4218.542	W08317.553
	LUPAY	N422552.65	W0831207.18	N4225.878	W08312.120
	OSKER	N422310.35	W0831407.58	N4223.173	W08314.126
	ROUGE	N422025.19	W0831609.89	N4220.420	W08316.165
	RW22L	N421352.37	W0832059.97	N4213.873	W08321.000
	IDWC (LOC)	N421159.54	W0832223.06	N4211.992	W08322.384

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW22L	00636	60

QUALITY
12
CHECKED

CITY AND STATE DETROIT, MI	ELEVATION: 645	TDZE: 637	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY		I-DWC	ILS OR LOC RWY 22L, AMDT 30A	AMDT: 30
				ILS RWY 22L (SA CAT I), ILS RWY 22L (SA CAT II)	DATED: 12/12/2013