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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
GRDCY/20.63 DME/RADAR (IAF)	MMOTR/17.77 DME/RADAR	212.19 / 2.86 (I-BZB)	6000
MMOTR/17.77 DME/RADAR	TAYUL/14.86 DME/RADAR	212.19 / 2.91 (I-BZB)	5000
TAYUL/14.86 DME/RADAR	EMINN/11.91 DME/RADAR	212.19 / 2.95 (I-BZB)	4000
EMINN/11.91 DME/RADAR (IF)	WONDR/8.92 DME/RADAR	212.19 / 3.00 (I-BZB)	3000
WONDR/8.92 DME/RADAR	JELVU/6.79 DME/RADAR	212.19 / 2.13 (I-BZB)	2300

MISSED APPROACH

MAP:DA

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 331 AND SVM VORTAC R-155 TO SVM VORTAC AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 355 AND PSI VORTAC R-176 TO PSI VORTAC AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 213.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW PSI VORTAC, RT, 124.00 INBOUND.
CHART IN PLANVIEW: PSI VORTAC.
CHART: LOC RWY 21L
CHART LOC RWY 22L
CHART IN PLANVIEW: PSI VORTAC
FAC CROSSES RWY C/L EXTENDED 2602 FROM THLD.
CHART PLANVIEW NOTE: LOC OFFSET 2.50 DEGREES.
CHART (CFBJN) FICTITIOUS THRESHOLD POINT (FTP).

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT GRDCY/20.63 DME/RADAR
3. FAC: 212.19 FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: GRDCY 7000, MMOTR 6000, TAYUL 5000, EMINN 4000, WONDR 3000, JELVU 2300
5. DIST TO THLD FROM OM: 4.96 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: 1055
6. MIN GS INCPT: 2300 GS ALT AT: JELVU/6.79 DME/RADAR 2300 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.1
8. MSA FROM: DXO VOR/DME 2800

MAG VAR: 6W EPOCH YEAR: 1990

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A

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-22R	892	2400	250	892	2400	250	892	2400	250	892	2400	250			

NOTES:
CHART NOTE: DME OR RADAR REQUIRED.
CHART NOTE: SIMULTANEOUS CLOSE PARALLEL APPROACH AUTHORIZED WITH ILS PRM RUNWAY 22L AND ILS PRM RWY 21L. PROCEDURE NOT AUTHORIZED WHEN GLIDE SLOPE NOT AVAILABLE. DUAL VHF COMM REQUIRED. SEE ADDITIONAL REQUIREMENTS ON AAUP.
(SEE FORM 8260-10)

QUALITY A CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 642	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	I-BZB	ILS Y PRM RWY 22R, ORIG-C	AMDT: ORIG-B
				DATED 02/10/2011

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X **DTW ATCT, DTW APP CON, AMGR, ST AV DIR, ZOB**

FLIGHT CHECKED BY		
NAME: **DONALD ALOYSIUS MCGOUGH**	FIFO **FIOG**	DATE: **06/03/2009**
DEVELOPED BY		
NAME: **ROY L. BARNETT**	FIFO **AJV-353**	DATE: **05/15/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

1. CHANGED PRIMARY MISSED APPROACH FROM: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SVM VORTAC AND HOLD. TO: CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 331 AND SVM VORTAC R-155 TO SVM VORTAC AND HOLD.
2. CHANGED ALTERNATE MISSED APPROACH FROM: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 VIA HEADING 355 AND PSI VORTAC R-176 TO PSI VORTAC AND HOLD NW, RT 124.00 INBOUND. TO: CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 355 AND PSI VORTAC R-176 TO PSI VORTAC AND HOLD.
3. CHANGED TDZE: 642 TO THRE: 642.
4. ADDED VGSI DATA.
5. ADDED PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
6. CHANGED CNF FIX KIVTE TO CNBJN.
7. REMOVED NOTE: WHEN ASSIGNED BY ATC, INTERCEPT GLIDEPATH AT 3000 OR 4000 OR 5000 OR 6000.

REASONS:

1, 2. REQUESTED BY FPT.
3, 4, 5, 6, 7. CRITERIA REQUIRED.

QUALITY CHECKED

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 642	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	I-BZB	ILS Y PRM RWY 22R, ORIG-C	AMDT: ORIG-B
				DATED: 02/10/2011

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	GRDCY/20.63	MMOTR/17.77	1. TOWER (26-000093)	422858.00N/0831219.00W	1749 (1D)	1000	AT3251	6000
	DME/RADAR	DME/RADAR	2. TERRAIN	423321.00N/0831712.00W	906 (900)		AS1500	2400
INITIAL: STEPDOWN	MMOTR/17.77	TAYUL/14.86	3. TOWER (26-002338)	422653.00N/0831023.00W	1749 (2C)	1000	AT2251	5000
	DME/RADAR	DME/RADAR	4. TERRAIN	422643.00N/0831222.00W	818 (800)		AS1500	2300
INITIAL: STEPDOWN	TAYUL/14.86	EMINN/11.91	5. TOWER (26-000885)	422326.00N/0831030.00W	1133 (3C)	1000	AT1867	4000
	DME/RADAR	DME/RADAR	6. TERRAIN	422621.00N/0831927.00W	699 (700)		AS1500	2200
INTERMEDIATE	EMINN/11.91	WONDR/8.92	7. TOWER (26-000133)	422239.00N/0831435.00W	1125 (1D)	500	AT1375	3000
	DME/RADAR	DME/RADAR	8. TERRAIN	422042.00N/0831851.00W	696 (700)		AS1500	2200
INTERMEDIATE:	WONDR/8.92	JELVU/6.79	9. AAO	422042.00N/0831851.00W	896 (4E)	500	AC98 AT806	2300
STEPDOWN	DME/RADAR	DME/RADAR	8. TERRAIN	422042.00N/0831851.00W	696 (700)		AS1500	2200
FINAL	JELVU/6.79	DA				ASC		892
	DME/RADAR							
2. PROCEDURE TURN	NA							
3. MISSED APPROACH — MAP:	DA	SVM VORTAC				ASC		3000
			10. TOWER (26-000689)	421802.70N/0833827.80W	1255 (2C)	1000		2300
ELEV:	702		11. TERRAIN	422157.00N/0833948.00W	1054 (1100)		AS1500	2600

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: DXO VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (26-000093)	030/ 17.7	1749 (1D)	2800					

CITY AND STATE	ELEVATION: 645 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DETROIT, MI	DETROIT METROPOLITAN WAYNE COUNTY	I-BZB	ILS Y PRM RWY 22R, ORIG-C	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
DTW TOWER DTW APP CON ZOB ARTCC		N W S	OTHER: ASOS	SOURCE: KDTW
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KDTW			ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	I-BZB
	MONITOR POINT:	DTW ATCT
	HRS OPTN: CAT 1	24
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 04R, 03R, 04L
		(S) SALS
	X	MALSR 21L, 27L, 22R, 22L, 27R
	X	HIRL 09L, 21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 09R, 22L, 27R
		MIRL
	X	REIL 09L, 03L, 21R, 09R
	X	TDZ 04R, 03R, 04L
	X	C/L 21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 09R, 22L
	X	OTHER (SPECIFY) PAPI-4R 03L, 03R, 22R PAPI-4L 21L, 21R, 27L, 04L, 27R
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 09L, 21L, 04R, 03R, 27L, 22R, 04L, 09R, 22L, 27R
	INSTRUMENT	NPI-G 03L, 21R
7. RUNWAY VISUAL RANGE	APPROACH	21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 22L, 27R
	MIDFIELD	09L, 21L, 04R, 03R, 22R, 04L, 22L
	ROLL OUT	21L, 03L, 04R, 21R, 03R, 22R, 04L, 22L
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 642.1
	DISTANCE FROM RWY: 1055	ELEV GP ANTENNA: 641.9
		THRESHOLD CROSSING HEIGHT: 55.1

9. FINAL APPROACH COURSE AIMING			
		RUNWAY THRESHOLD 2602	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ROY L. BARNETT	DATE: 05/15/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: 3.00/ 70.8

NO ADDITIONAL AIRSPACE REQUIRED.

BACK-UP ALTIMETER MINIMUMS NOT IDENTIFIED DUE TO MAJOR AIRPORT WEATHER SYSTEM REDUNDANCY.

LOCALIZER ALIGNMENT SET IAW 8260.3B APDX 3 PARA 3.0 SET AT 2.50 FROM RWY 22L LOCALIZER. AFS 400 CONCURRED PRIOR TO FINAL ALIGNMENT.

FIX PLACEMENT OF WONDR, EMINN, MMOTR AND GRDCY ARE BASED ON CALCULATIONS FROM 8260.54A AS APPROVED BY AVN-101.

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
12. TOWER (26-001399) 424058.84N/0833310.66W 1414 (1A) 1000 2500
13. TERRAIN 424100.00N/0833957.00W 1168 (1200) AS1500 2700

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFBJN **STATE:** MI **COUNTRY:** US

LATITUDE/LONGITUDE: 421333.98N/0832157.26W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
FICTITIOUS THRESHOLD

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y PRM 22R (SIM CLOSE PAR)			KDTW	DETROIT	MI (US)
IAP	ILS Y RWY 22R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/15/2012

REASON FOR REVISION:
FIX NAME CHANGED TO CNF CFBJN FROM KIVTE, NO OTHER CHANGES MADE.

DEVELOPED BY: **DATE:** 05/21/2012 **OFFICE:** AJV-353 **NAME:** ROY BARNETT

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: DTW ATCT
OTHER:

QUALITY CHECKED