

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							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		LNAV: RW22							
LLEEO				YEGHI (TF) (FB) (RNP 2.00)			335.59 / 26.52				3000		CLIMB TO 2400 DIRECT AMXUX AND HOLD.							
YEGHI (IAF)				UFDIV (NOPT) (TF) (FB) (RNP 1.00)			307.40 / 5.00				2400									
UFDIV (IF/IAF)				WIQSU (TF) (FB) (RNP 1.00)			217.43 / 6.10				2200									
WIQSU (FAF)				STEFI/2.40 NM TO RW22 (TF) (FB) (RNP 0.30)			217.38 / 2.46													
STEFI/2.40 NM TO RW22				RW22 (MAP) (TF) (FO) (RNP 0.30)			217.38 / 2.40						ADDITIONAL FLIGHT DATA: HOLD SW, RT, 037.25 INBOUND. CHART FAS OBST: 713 TREE 420701N/0830851W. CHART VDP AT 1.08 NM TO RW22. WIQSU TO RW22: 3.04/40							
(SEE FORM 8260-10)																				
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																				
2. HOLD NE UFDIV, RT, 217.43 INBOUND, 2400 FT. IN LIEU OF PT (IAF)																				
3. FAC: 217.38 FAF: WIQSU DIST FAF TO MAP: 4.86 THLD: 4.86																				
4. MIN. ALT: UFDIV 2400, WIQSU 2200, STEFI/2.40 NM TO RW22 1400																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																				
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: _____ TCH: 20:1 IS CLEAR 34:1 IS NOT CLEAR																				
8. MSA FROM: RW22 3100																				
MAG VAR: 7W EPOCH YEAR: 2010																				
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					
LNAV MDA	980	1	389	980	1	389	980	1 1/8	389	980	1 1/4	389								
CIRCLING	1460	1 1/4	869	1460	1 1/4	869	1460	2 1/2	869	1460	2 3/4	869								
NOTES: CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. PBN REQUIREMENTS NOTE: RNP APCH.																				
@ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4																				
CITY AND STATE DETROIT/GROSSE ILE, MI				ELEVATION: 591 TDZE: 591 AIRPORT NAME: GROSSE ILE MUNI				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1A				SUP: AMDT: 1 DATED 05/07/2009				

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
ROUTINE					
COORDINATED WITH:					
A4A	ALPA	AOPA	APA	HAI	NBAA
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
OTHER (specify) ZOB, DTW APP CON, ARPT MGR					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
DEZ SILAGYI (DARREN HOOPER)				AJV-5421	01/16/2018
APPROVED BY					
NAME:				FIFO	DATE:
JULIE A. MORGAN				AJV-5420	
MANAGER					
CHANGES:					
<div>1. REMOVED HARBS FIX AND FEEDER SEGMENT FROM HARBS TO UFDIV AND ALL ASSOCIATED NOTES.</div> <div>2. ADD CA LEG 980 MSL TO TERMINAL ROUTES.</div> <div>3. ADDED "20:1 IS NOT CLEAR".</div> <div>4. CHANGED ADDITIONAL FLIGHT DATA CHART FAS OBST: FROM "704 TREE 420752N/0830832W" TO "713 TREE 420701N/0830851W".</div> <div>5. ADDED ADDITIONAL FLIGHT DATA NOTE: "CHART VDP AT 1.08 NM TO RW22".</div> <div>6. CHANGED LNAV MDA/HAT ALL CATS FROM "960/369" TO "980/389".</div> <div>7. CHANGED LNAV CAT C VISIBILITY FROM "1 SM" TO "1 1/8 SM".</div> <div>8. CHANGED CIRCLING CAT A VISIBILITY FROM "1 SM" TO "1 1/4 SM".</div> <div>9. REMOVED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DETROIT METROPOLITAN WAYNE COUNTY ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET. INCREASE LNAV CAT C AND CIRCLING A, C, AND D VISIBILITIES 1/4 MILE".</div> <div>10. CHANGED NOTE: "CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.</div> <div>11. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HARBS VIA V493 SOUTHBOUND".</div> <div>12. REMOVED NOTE "CHART NOTE: DME/DME RNP 0.3 NA".</div> <div>13. ADDED NOTE: "PBN REQUIREMENTS NOTE: RNP APCH".</div>					
REASONS:					
<div>1, 11. REMOVED PER IFP CHECKLIST REQUEST IN ASSOCIATION WITH CLE/DTW METROPLEX AIRWAY CLEANUP PROJECTS.</div> <div>2. ENTRY REQUIRED PER 8260.19H AND ARINC CRITERIA.</div> <div>3. NOTE REQUIRED PER FAAO 8260.19H 8-6-7 G(3) FOR RNAV PROCEDURES.</div> <div>4, 5, 6, 7, 8. NEW AIRPORT DATA/SURVEY AND NEW OBSTACLE EVALUATION.</div> <div>9. PER IFP GROUP POLICY EMAIL FROM BRAD RUSH SUBJECT: WMSCR BACKUP ALTIMETER DATED 2-15-2017. DATGA PLACED ON BACK OF -9 FORM AS CONTINGENCY NOTE FOR B/U ALTIMETER SETTING FOR NOTAM CONTINGENCY.</div> <div>10. UPDATED NOTE PER FAAO 8260.19H 8-6-11 K(3).</div> <div>12, 13. PER UPDATED MEMO 259 IMPLEMENTATION OF 8260.19H UPDATED WITH NEW CLARIFICATION APPROVED ON 12/21/2017.</div>					

QUALITY
4
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW22 (MAP)	980 MSL (CA)	217.38	
980 MSL	AMXUX (DF) (FO) (RNP 1.00)		2400

QUALITY
4
CHECKED

CITY AND STATE

DETROIT/GROSSE ILE, MI

ELEVATION: 591

TDZE: 591

AIRPORT NAME:

GROSSE ILE MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 1A

SUP:

AMDT: 1

DATED: 05/07/2009

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: A4A ALPA APA AOPA HAI NBAA OTHER (specify) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD	
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	PART - A OBSTRUCTION DATA
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1. APP SEGMENT			FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.		
FEEDER			LLEEO		YEGHI		1. TOWER (CA-000379)		420909.00N/0825705.00W		1340 (4D)		1000		AT660		3000		
							2. TERRAIN		420836.00N/0824852.00W		680 (700)				AS1500		2200		
INITIAL			YEGHI		UFDIV		3. TOWER (CA-002002)		421021.00N/0825928.00W		1290 (4D)		1000		AT110		2400		
							4. TERRAIN		421639.00N/0830357.00W		650 (700)				AS1500		2200		
INTERMEDIATE			UFDIV (IF/IAF)		WIQSU		5. STACK (CA-001789)		421655.00N/0830539.00W		1030 (4D)		500				1600		
							6. TERRAIN		421630.00N/0830348.00W		650 (700)				AS1500		2200		
FINAL: LNAV			WIQSU		STEFI/2.40 NM TO		7. TREE (26-049861)		420829.08N/0830647.23W		677 (1A)		250		RA33 AC20 DG403		1400		
					RW22														
FINAL: LNAV STEPDOWN			STEFI/2.40 NM TO		RW22		8. TREE (26-049976)		420701.07N/0830851.21W		713 (1B)		250				980		
			RW22																
2. HOLD-IN-LIEU-OF-PT			UFDIV		P-5		9. BLDG (23-0668)		421945.00N/0830225.00W		1313 (3C)		1000				2400		
							10. TERRAIN		422239.00N/0830148.00W		659 (700)				AS1500		2200		
3. MISSED APPROACH		MAP:		RW22		AMXUX						ASC				2400			
								11. TOWER (26-000583)		415726.00N/0831530.00W		1080 (5D)		1000		2100			
		ELEV:		880				12. TERRAIN		420336.00N/0831354.00W		650 (700)				AS1500			
4. CIRCLING AREA		DISTANCE				HT. ABV. ARPT.													
CATEGORY A		1.3 NM		REQUIRED ACTUAL		350		869		13. STACK (26-000370)		420718.00N/0831051.00W		1145 (1A)		300		1460	
CATEGORY B		1.5 NM				450		869		13. STACK (26-000370)		420718.00N/0831051.00W		1145 (1A)		300		1460	
CATEGORY C		1.7 NM				450		869		13. STACK (26-000370)		420718.00N/0831051.00W		1145 (1A)		300		1460	
CATEGORY D		2.3 NM				550		869		13. STACK (26-000370)		420718.00N/0831051.00W		1145 (1A)		300		1460	
CATEGORY E		4.5 NM				550													
5. MINIMUM SAFE ALTITUDES																			
PRIMARY NAVAID: RW22																			
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A	
360-360		TWR (39-000350)		206/27.7		2016 (5D)		3100										QUALITY	
																		4	
CITY AND STATE				ELEVATION: 591				FACILITY				PROCEDURE AND AMENDMENT NO:				REGION			
DETROIT/GROSSE ILE, MI				AIRPORT NAME: GROSSE ILE MUNI				RNAV				RNAV (GPS) RWY 22, AMDT 1A				CHECKED AGL			

PART B - SUPPLEMENTAL DATA										PART C - REMARKS:																			
1. COMMUNICATIONS WITH:					2. WEATHER SERVICE					3. ALTIMETER SETTING					THRESHOLD DISPLACED 428 FEET.														
ZOB ARTCC DTW APP CON LAN FSS							N W S		OTHER: AWOS-3					SOURCE: KONZ / KDTW					PRECIPITOUS TERRAIN EVALUATION COMPLETED.										
							F A A							DISTANCE: 0 / 10.92															
							A / C							HOURS REMOTE OPERATION: 0/YES / 24/YES															
SATISFACTORY ON:										LOCATION: KONZ					ADJUSTMENT: 0 / 33					VGSI DATA: 3.04/40 TCH.									
4. MONITOR STATUS					PRIMARY NAVAID:										NO ADDITIONAL AIRSPACE REQUIRED.														
					MONITOR POINT:																								
					HRS OPTN:		CAT 1																						
5. APPROACH & RUNWAY LIGHTING							ALS								RASS PRESSURE PATTERNS THE SAME KDTW 645.2, KONZ 590.5 RA = 32.8.														
							(S) SALS																						
							MALS																						
							HIRL																						
					X		MIRL 04 (PCL), 17 (PCL), 22 (PCL), 35 (PCL)																						
					X		REIL 04 (PCL), 22																						
							TDZ																						
							C/LINE																						
6. RUNWAY MARKINGS							OTHER (SPECIFY) PAPI-4L 04 (PCL), 17 (PCL), 22 (PCL), 35 (PCL)								"VISUAL PORTION OF FINAL" PENETRATIONS: LNAV														
					BASIC BSC-F 17, 35																								
					ALL WEATHER																								
7. RUNWAY VISUAL RANGE					INSTRUMENT NPI-G 04, 22										20:1 PENETRATIONS: 667 TREE (26-049792) 420625.71N/0830859.92W (5.82) 653 TREE (26-093786) 420627.64N/0830909.35W (1.35) 654 TREE (26-049521) 420627.18N/0830907.41W (0.66) 663 TREE (26-029669) 420625.90N/0830859.74W (0.65)														
					APPROACH																								
					MIDFIELD																								
8. GLIDE PATH					ROLL OUT										34:1 PENETRATIONS: 697 TREE (26-093595) 420637.09N/0830902.55W (38.71) 667 TREE (26-049792) 420625.71N/0830859.92W (35.01) 663 TREE (26-029669) 420625.90N/0830859.74W (30.32) 666 TREE (26-049839) 420629.50N/0830904.82W (29.76) 664 TREE (26-049845) 420629.81N/0830907.16W (29.58) 662 TREE (26-028988) 420629.58N/0830908.36W (29.52) 654 TREE (26-049521) 420627.18N/0830907.41W (26.62) 653 TREE (26-093786) 420627.64N/0830909.35W (26.61) 685 TREE (26-050063) 420633.68N/0830854.60W (26.57) 658 TREE (26-049794) 420629.24N/0830908.30W (26.32) 658 TREE (26-049793) 420627.34N/0830903.87W (26.24) 666 TREE (26-093594) 420630.58N/0830902.27W (24.13) 651 TREE (26-028989) 420627.84N/0830908.42W (23.06) 679 TREE (26-050060) 420635.91N/0830900.96W (21.96) 661 TREE (26-049814) 420629.82N/0830859.64W (18.13) 666 TREE (26-029670) 420633.94N/0830903.00W (16.31) 660 TREE (26-050171) 420630.44N/0830855.67W (11.10) 662 TREE (26-050102) 420635.42N/0830904.66W (10.37) 640 TREE (26-049791) 420626.62N/0830900.83W (6.69) 674 TREE (26-050112) 420635.36N/0830850.31W (6.45) 628 TREE (26-049549) 420626.05N/0830909.10W (5.42) 676 TREE (26-050115) 420641.25N/0830900.92W (5.20) 660 TREE (26-050061) 420632.36N/0830852.76W (2.90) 635 TREE (26-093782) 420628.69N/0830905.57W (1.68)														
					GP ANGLE:					ELEV RWY THRESHOLD:																			
					DISTANCE FROM RWY:					ELEV GP ANTENNA:																			
					THRESHOLD CROSSING HEIGHT:																								
9. FINAL APPROACH COURSE AIMING					X		RUNWAY THRESHOLD					FT. FROM THRESHOLD																	
					X		ON CENTERLINE					FT. FROM CENTERLINE																	
10. WAIVERS: NONE																													
PART D - PREPARED BY: DEZ SILAGYI (DARREN HOOPER)										DATE: 01/16/2018																			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5421																			
CONT.																													

QUALITY
4
CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
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:				
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
									QUALITY
									4

CITY AND STATE DETROIT/GROSSE ILE, MI	ELEVATION: 591 AIRPORT NAME: GROSSE ILE MUNI	FACILITY RNAV	PROCEDURE AND AMENDMENT NO: RNAV (GPS) RWY 22, AMDT 1A	REGION AGL
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PART B - SUPPLEMENTAL DATA										PART C - REMARKS: CONTINUED. CONTINGENCY NOTES FOR B/U ALTIMETER SETTING: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DETROIT METROPOLITAN WAYNE COUNTY ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET. INCREASE LNAV CAT C VISIBILITY 1/8 SM AND CIRCLING CAT C/D VISIBILITY 1/4 SM.	
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE			3. ALTIMETER SETTING				
SATISFACTORY ON:					N W S	OTHER:		SOURCE:			
					F A A			DISTANCE:			
					A / C			HOURS REMOTE OPERATION:			
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:		
4. MONITOR STATUS		PRIMARY NAVAID:									
		MONITOR POINT:									
		HRS OPTN:	CAT 1								
			CAT 3								
5. APPROACH & RUNWAY LIGHTING			ALS								
			(S) SALS								
			MALS								
			HIRL								
			MIRL								
			REIL								
			TDZ								
			C/LINE								
6. RUNWAY MARKINGS		BASIC									
		ALL WEATHER									
		INSTRUMENT									
7. RUNWAY VISUAL RANGE		APPROACH									
		MIDFIELD									
		ROLL OUT									
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:					
		DISTANCE FROM RWY:				ELEV GP ANTENNA:					
		THRESHOLD CROSSING HEIGHT:									
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD		
				ON CENTERLINE					FT. FROM CENTERLINE		
10. WAIVERS:											
PART D - PREPARED BY:						DATE:					
TITLE:						OFFICE:					

