

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
<b>GOPAC (RNAV)</b>	<b>THREE</b>	<b>GOPAC.GOPAC3</b>	<b>TWO</b>	<b>12/07/2017</b>	<b>15 JUN 2023</b>

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
CHZHD	CHZHD.GOPAC3	CHZHD	CHZHD						
			LEEDN	022.22	43.89	7000	2500		
			MUMPR	001.32	31.85	7000	2500		
			DETIE	359.01	06.97	7000	2500		
			MOWSR	356.73	11.42	7000	2500		
			TRUDO	356.65	08.22	7000	2500		
			KNARF	354.03	03.34	7000	2300		
			GOPAC	013.13	04.73	7000	2300		
LEEDN	LEEDN.GOPAC3	LEEDN	LEEDN						
			MUMPR	001.32	31.85	7000	2500		
			DETIE	359.01	06.97	7000	2500		
			MOWSR	356.73	11.42	7000	2500		
			TRUDO	356.65	08.22	7000	2500		
			KNARF	354.03	03.34	7000	2300		
			GOPAC	013.13	04.73	7000	2300		
OGECA	OGECA.GOPAC3	OGECA	OGECA						
			OHLIE	089.84	83.63	9000	3200		
			YEDSU	091.15	45.16	7000	3100		
			GIWFY	092.29	07.03	7000	2600		
			KPACK	090.96	06.92	7000	2600		
			ZOWRO	092.06	08.67	7000	2300		
			LEEDR	080.41	06.07	7000	2300		
			GOPAC	080.68	05.28	7000	2300		

ARRIVAL ROUTE DESCRIPTION:

LANDING ALL AIRPORTS: FROM GOPAC ON TRACK 074.95/6.35 TO TAIL, THEN ON TRACK 074.95. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS



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**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED

**PROCEDURAL DATA NOTES:**

NOTE: LANDING KUGN, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

NOTE: LANDING KPWK, EXPECT RADAR VECTORS TO HIGUH, THEN TO DESTINATION AIRPORT.

**FIXES AND/OR HOLDING PATTERNS:**

CHART HOLDING AT LEEDN: HOLD S, RT, 001.32 INBOUND, 10 NM LEGS.

CHART HOLDING AT ZOWRO: HOLD W, RT, 092.96 INBOUND, 10 NM LEGS.

CHART STAND-ALONE NAVAID/WAYPOINTS: OBK VOR/DME, HIGUH, TALOR.

**COMMUNICATIONS:**

CHART: MILWAUKEE APP CON.

**AIRPORTS SERVED:**

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
KRAC	RACINE	WI
KBUU	BURLINGTON	WI
KPWK	CHICAGO/PROSPECT HEIGHTS/WHEELING	IL
57C	EAST TROY	WI
KMKE	MILWAUKEE	WI
KHXF	HARTFORD	WI
KENW	KENOSHA	WI
KMWC	MILWAUKEE	WI
KUGN	CHICAGO/WAUKEGAN	IL
KUES	WAUKESHA	WI
KETB	WEST BEND	WI

**LOST COMMUNICATIONS PREFERENCES:****REMARKS:**

100 FT MAXIMUM VEGETATION HEIGHT UTILIZED.

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: KMKE 04W/2020.

CHART AT TAIL TERMINUS: LDG KRAC, KBUU, KPWK, 57C, KMKE, KHXF, KENW, KMWC, KUGN, KUES AND KETB.



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<i>Digitally signed by</i>					
<b>ERIC N SUSKI</b>					
Mar 17, 2023					
<i>Digitally signed by</i>					
<b>MICHAEL A MCCARTNEY</b>					
Jan 13, 2023					
<i>Digitally signed by</i>					
<b>ERIC N SUSKI</b>					
Jan 23, 2023					

**FLIGHT INSPECTED BY:**

SCOTT WIEBE

**ORGANIZATION:**

FPO

**DATE:**

03/15/2023

Flight Inspected Signature:

**DEVELOPED BY:**

MICHAEL MCCARTNEY

AJV-A431

12/29/2022

Developed By Signature:

**APPROVED BY:**

JOHNNIE BAKER

AJV-A430

Approved By Signature:

**CHANGES:**

1. CHANGED WAYPOINT FIX NAME FROM FIX DREWD TO FIX MOWSR.
2. CHANGED MOCA OF MOWSR-TRUDO LEG FROM 2300 TO 2500.
3. ADDED CHZHD TRANSITION.
4. ADDED KPWK AIRPORT TO STAR.
5. ADDED TO BEGINNING OF ARRIVAL ROUTE DESCRIPTION "LANDING ALL AIRPORTS:"
6. DELETED ARRIVAL ROUTE DESCRIPTION "(MEA 5000)" ON GOPAC-TAAIL LEG.
7. DELETED ARRIVAL ROUTE DESCRIPTION TAAIL-BONOT LEG AND CHANGED RESULTING TERMINUS TRACK FROM 076.31 AT FIX BONOT TO 074.95 AT FIX TAAIL.
8. MOVED AND REFORMATTED FROM PROCEDURAL DATA NOTES "NOTE: RNAV 1" AND "NOTE: DME/DME/IRU OR GPS REQUIRED" TO PBN REQUIREMENT NOTES AND CHANGED TO READ "RNAV 1 - DME/DME/IRU OR GPS".
9. MOVED FROM PROCEDURAL DATA NOTES "NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT" TO EQUIPMENT REQUIREMENT NOTES AND CHANGED TO READ "RADAR REQUIRED".
10. ADDED PROCEDURAL DATA NOTES "NOTE: LANDING KUGN, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE." AND "NOTE: LANDING KPWK, EXPECT RADAR VECTORS TO HIGUH, THEN TO DESTINATION AIRPORT."
11. DELETED FIXES AND/OR HOLDING PATTERNS JVL VOR/DME AND ASSOCIATED HOLDING DATA.
12. ADDED TO FIXES AND/OR HOLDING PATTERNS "CHART STAND-ALONE NAVAID/WAYPOINTS: OBK VOR/DME, HIGUH, TALOR."
13. ADDED "CHART:" TO COMMUNICATIONS BLOCK AND DELETED "MILWAUKEE ATIS, TIMMERMAN ATIS, WAUKEGAN ATIS, KENOSHA ATIS, WAUKESHA ATIS."
14. REMOVED AIRPORT NAMES FROM AIRPORTS SERVED.
15. UPDATED ADDITIONAL FLIGHT DATA MAGNETIC VARIATION FORMAT FROM "REFERENCE MAGNETIC VARIATION = KMKE 04W/2020" TO "MAG VAR: KMKE 04W/2020."
16. ADDED ADDITIONAL FLIGHT DATA "CHART AT TAAIL TERMINUS: LDG KRAC, KBUU, KPWK, 57C, KMKE, KHXF, KENW, KMWC, KUGN, KUES AND KETB."
17. DELETED "RECOMMENDED NAVAID: VIO VOR/DME" FROM FAA FORM 8260-17.2.

**REASONS:**

1. ATC REQUEST TO RESOLVE SIMILAR SOUNDING FIX NAME/SAFETY ISSUE.
2. LEG MOCA MUST NOT BE LOWER THAN FOLLOWING LEG MOCA IAW FAAO 8260.3E PARA 2-2-7.D.(3).
3. ZKC ARTCC REQUEST - INCREASE EFFICIENCY OF INTERFACILITY HANDOFFS.
- 4-5. ATC REQUEST.
6. MEAS NOT ESTABLISHED ON COMMON ROUTES IAW FAAO 8260.3E PARAGRAPH 2-2-7.E.(3).
7. ATC REQUEST - NO LONGER NEEDED.
8. PBN REQUIREMENTS FORMAT IAW FAAO 8260-19.I PARAGRAPH 4-5-13.A.

QUALITY  
14  
CHECKED

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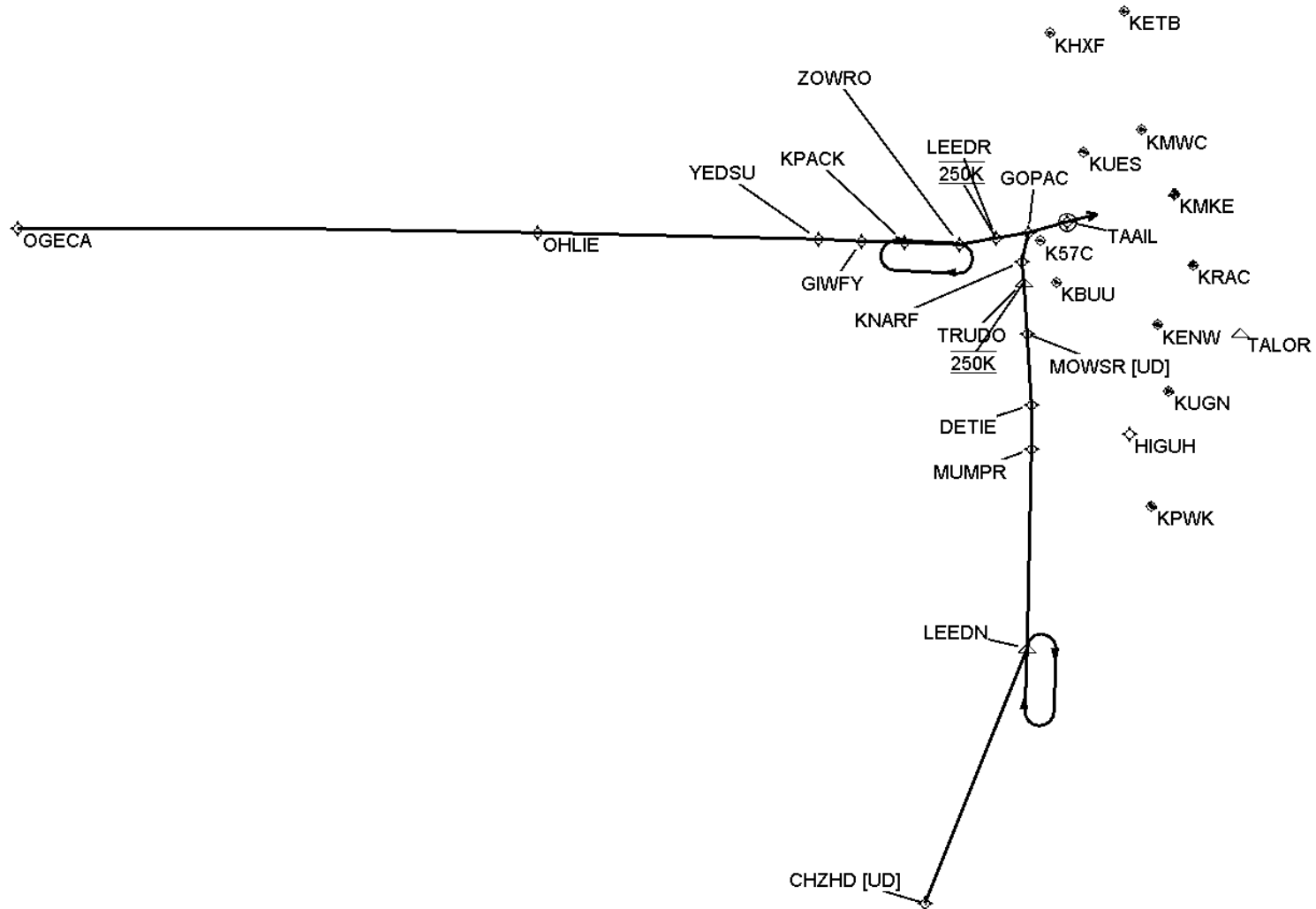
9. ATC REQUEST RADAR VECTORS AT TERMINUS AND FORMAT IAW 8260.19I PARAGRAPH 4-5-12.D.(6).  
10. ATC REQUEST TO REDUCE PILOT INQUIRIES.  
11. JVL VOR/DME SCHEDULED FOR DECOMMISSIONING UNDER VOR MON.  
12. ATC REQUEST FOR PILOT AND CONTROLLER REFERENCE, DOCUMENTED IAW FAAO 8260.19I PARAGRAPH 4-5-12.E.  
13. ATIS CHARTED AUTOMATICALLY AND FORMAT IAW FAAO 8260.19I PARAGRAPH 4-5-12.F.  
14. AIRPORTS SERVED FORMAT IAW FAAO 8260.19I PARAGRAPH 4-5-12.G.  
15. MAGNETIC VARIATION FORMAT IAW FAAO 8260.19I PARAGRAPH 4-5-13.C.(2).  
16. TERMINUS ACCESSIBLE AIRPORTS DOCUMENTED IAW FAAO 8260.19I PARAGRAPH 4-5-2.H.(1).  
17. NO LONGER DOCUMENTED.



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Graphic Depiction 1					



**FEDERAL AVIATION ADMINISTRATION  
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STAR (DATA RECORD)**

Arrival Name GOPAC (RNAV)		Number THREE		STAR Computer Code GOPAC.GOPAC3			Superseded Number TWO		Dated 12/07/2017	Effective Date 15 JUN 2023
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
En Route Transition										
CHZHD	410106.21N / 0883718.27W	Y		IF					CHZHD.GOPAC3	
LEEDN	414247.37N / 0881858.87W	Y	FB	TF	018.22	43.89				
MUMPR	421436.90N / 0882059.29W	Y	FB	TF	357.32	31.85				
DETIE	422133.64N / 0882148.38W	Y	FB	TF	355.01	06.97				
MOWSR	423253.36N / 0882345.72W	Y	FB	TF	352.73	11.42				
TRUDO	424102.48N / 0882511.27W	Y	FB	TF	352.65	08.22		AT 250K		
KNARF	424419.77N / 0882558.32W	Y	FB	TF	350.03	03.34				
GOPAC	424900.26N / 0882457.07W	Y	FB	TF	009.13	04.73				
En Route Transition										
LEEDN	414247.37N / 0881858.87W	Y		IF					LEEDN.GOPAC3	
MUMPR	421436.90N / 0882059.29W	Y	FB	TF	357.32	31.85				
DETIE	422133.64N / 0882148.38W	Y	FB	TF	355.01	06.97				
MOWSR	423253.36N / 0882345.72W	Y	FB	TF	352.73	11.42				
TRUDO	424102.48N / 0882511.27W	Y	FB	TF	352.65	08.22		AT 250K		
KNARF	424419.77N / 0882558.32W	Y	FB	TF	350.03	03.34				
GOPAC	424900.26N / 0882457.07W	Y	FB	TF	009.13	04.73				
En Route Transition										
OGECA	423824.55N / 0920501.07W	Y		IF					OGECA.GOPAC3	
OHLIE	424332.94N / 0901150.75W	Y	FB	TF	085.84	83.63				
YEDSU	424531.39N / 0891036.77W	Y	FB	TF	087.15	45.16				
GIWFY	424543.61N / 0890104.62W	Y	FB	TF	088.29	07.03				
KPACK	424605.24N / 0885142.03W	Y	FB	TF	086.96	06.92				
ZOWRO	424622.25N / 0883956.45W	Y	FB	TF	088.06	08.67				
LEEDR	424747.53N / 0883155.67W	Y	FB	TF	076.41	06.07		AT 250K		
GOPAC	424900.26N / 0882457.07W	Y	FB	TF	076.68	05.28				

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<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG</u> <u>TYPE</u>	<u>TC</u>	<u>DIST</u> <u>(NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>	
Common Route										
GOPAC	424900.26N / 0882457.07W	Y		IF					GOPAC.GOPAC3	
TAAIL	425104.38N / 0881647.38W	Y	FO	TF	070.95	06.35				
57C,KBUU,KENW, KETB,KHXF,KMKE, KMWC,KPWK,KRAC, KUES,KUGN				FM	070.95					