

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> JOHN GLENN COLUMBUS INTL	<u>AIRPORT ID</u> KCMH	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 10R	<u>ORIGINAL/AMENDMENT</u> 1C	<u>CITY</u> COLUMBUS	<u>STATE</u> OH	
<u>AIRPORT ELEVATION</u> 815	<u>TDZE</u> 809	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 10R	<u>ORIGINAL/AMENDMENT</u> 1B	<u>DATED</u> 06/22/2017	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
JOGER	IAF	WOTIT		TF	FB	1.00	037.23	20.02	2900
PIZZA	IAF	WOTIT		TF	FB	1.00	136.93	8.44	2900
WOTIT	IF	SHOSH	PFAF	TF	FB	1.00	101.01	7.12	2700
SHOSH	PFAF	RW10R	MAP	TF	FO	0.30	101.11	5.78	
RW10R	MAP	CORED		TF	FO	1.00	101.20	13.42	3000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON TRACK 101.20 TO CORED AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT WOTIT
3. **FAC:** 101.11 **PFAF:** SHOSH **DIST PFAF TO MAP:** **DIST PFAF TO THLD:**
4. **MIN ALT:** WOTIT 2900, SHOSH 2700
5. **DIST TO THLD FROM PFAF:** 5.78 **MM:** **IM:** **150 HAT:** **362 HAT:** 0.98 **GS ANT:**
6. **MIN GP INCPT:** 2700 **GP ALT AT PFAF :** SHOSH 2700 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 54.0#
8. **MSA FROM:** RW10R 3100



PBN REQUIREMENTS NOTES:

RNP AR APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -18C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JOGER ON V5 SOUTHWEST BOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.17 ALL CATS VISIBILITY TO RVR 5900, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 SM.

ADDITIONAL FLIGHT DATA:

ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S
#TCH 859 MSL (DO NOT CHART)
HOLD E, LT, 281.38 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.17 DA	1171	3500	362	1171	3500	362	1171	3500	362	1171	3500	362			
RNP 0.30 DA	1288	5500	479	1288	5500	479	1288	5500	479	1288	5500	479			

CHANGES - REASONS

1. REMOVED CHART PLANVIEW NOTE PROCEDURE NA AT PIZZA - AIRWAY CLEANUP PROJECT, V12 REMOVED AND PIZZA CHANGED TO WP.
2. CHANGED NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.17 ALL CATS VISIBILITY TO RVR 5900, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 MILE" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.17 ALL CATS VISIBILITY TO RVR 5900, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 SM" - PER ORDER 8260.19H, PARA 8-6-11.O.(3)(D).
3. REMOVED NOTE "USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS - NOT REQUIRED FOR RNP APPROACHES PER FAAO 8260.19H PARA 8-6-11. O.(7).
4. CHANGED DISTANCE TO THLD FROM 362 HAT: FROM 0.97 NM TO 0.98 NM - UPDATED IAW AFS APPROVED VISI TOOL.
5. REMOVED NOTE "GPS REQUIRED" - THIS NOTE NO LONGER REQUIRED.
6. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8.
7. ADDED 20:1 IS CLEAR - NO VISUAL SURFACE PENETRATIONS.
8. UPDATED BARO/VNAV NOTE - REMOVED FAHRENHEIT TEMPERATURES IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-9.S AND UPDATED HIGH TEMPERATURE FROM 38C TO 54C - AFS TEMPERATURE CALCULATOR.

PDF EDITS: 06/06/2018
1. PBN EQUIPMENT REQUIREMENTS NOTES CHANGED FROM "CHART PBN REQUIREMENTS NOTE: RNP AR APCH." TO "RNP AR APCH".
2. PART D: AIRSPACE ADDED THRESHOLD COORDINATES 395937.14N/0825433.04W - NEW SIAP ISSUE, SIAP DROPPING LAT/LONG.
3. ADDED HMAS VALUES - KNOWN PROBLEM, SIAP HMAS ENTRIES DO NOT POPULATE NEW FORMS 8260-9.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: CMH APP CON, CMH ATCT, ZID, AMGR., ATA

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-333) MEMO, DEC 22, 2017.

DEVELOPED BY

ROBERT G HAMILTON (WILLIAM HANBY)

APPROVED BY

JULIE MORGAN

OFFICE

OFFICE

AJV-5422

OFFICE

AJV-5420

DATE

DATE

04/12/2018

DATE

ROBERT G HAMILTON

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Digitally signed by

Jun 22, 2018

Digitally signed by

Jun 22, 2018

Digitally signed by

Jun 22, 2018

TITLE

MANAGER

