

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) 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> RICHMOND MUNI	<u>AIRPORT ID</u> KRID	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> RICHMOND	<u>STATE</u> IN
<u>AIRPORT ELEVATION</u> 1140	<u>TDZE</u> 1136	<u>SUPERSEDED</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 04/28/2016	<u>MAG VAR</u> 3W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 8 NOVEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 1985

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 328/30 CW 148/30	NOPT	328/15 CW 148/15		2900
1. 328/15 CW 148/15		SNACK	IF/IAF	2800
2. 148/30 CW 328/30		148/15 CW 328/15		3000
2. 148/15 CW 328/15		SNACK	IAF	2800

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>
SNACK	IF/IAF	OZROC		TF	FB	1.00	058.03	6.23	2800
OZROC	FAF	RW06	MAP	TF	FO	0.30	058.10	5.02	
RW06	MAP	1500 MSL		CA			058.10		
1500 MSL		PEWEZ		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LP: RW06
LNAV: RW06

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT PEWEZ AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- 2. HOLD SW SNACK, RT, 058.03 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 058.10 **FAF:** OZROC **DIST FAF TO MAP:** 5.02 **DIST FAF TO THLD:** 5.02
- 4. **MIN ALT:** SNACK 2800, OZROC 2800
- 5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
- 6. **MIN GP INCPT:** **GP ALT AT FAF :**
- 7. **GP ANGLE:** **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** **MM:** **IM:**
- 8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING RWY 15 NA AT NIGHT.
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: RWY 06 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
 OZROC TO RW06: 3.04/45.
 CHART VDP AT 1.06 NM TO RW06
 WAAS CHANNEL #72842
 REFERENCE PATH ID: W06A
 FAS OBST: 1250 AAO 394300N/0845418W, 1270 AAO 394245N/0845402W.
 CHART: 1289 TOWER 394147N/0845537W.
 HOLD NE, RT, 238.29 INBOUND
 LTP HAE: 312.1 M

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
LP MDA	1500	1	364	1500	1	364	1500	1	364	1500	1	364				
LNAV MDA	1520	1	384	1520	1	384	1520	1 1/8	384	1520	1 1/8	384				
CIRCLING	1600	1	460	1600	1	460	1600	1 1/2	460	1700	2	560				



CHANGES - REASONS

1. TERMINAL ROUTES DELETED: RID VORTAC TO SNACK, BATHY TO TFARM, TFARM TO SNACK, VOCCA TO SNACK - RID VORTAC DECOMMISSIONING.
2. TERMINAL ROUTE, SNACK TO OZROC, RNP VALUE CHANGE 0.50 TO 1.00. COURSE CHANGED FROM 058.02 TO 058.03 - TO LINE UP WITH FINAL SEGMENT ALIGNMENT, INTERMEDIATE RNP VALUE UPDATED TO NEW VALUE.
3. TERMINAL ROUTE, OZROC TO RW06 (MAP), COURSE CHANGED FROM 058.09 TO 058.10 - COURSE CORRECTED WITH NEW EVALUATION.
4. TERMINAL ROUTE ADDED: RW06 (MAP) TO 1500 MSL (CA) 058.10 - CA LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2. CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
5. TERMINAL ROUTES, RW06 (MAP) TO PEWEZ CHANGED TO 1500 MSL TO PEWEZ - CA LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2. CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
6. PROFILE LINE 2, HIL AT SNACK, COURSE CHANGED FROM 058.02 TO 058.03 - COURSE ADJUSTED TO MATCH NEW INTERMEDIATE COURSE.
7. PROFILE LINE 3, FAC CHANGED FROM 058.09 TO 058.09 - COURSE CORRECTED WITH NEW EVALUATION.
8. PROFILE LINE 7, 20:1 IS CLEAR ADDED - IAW 8260.19H PARA 8-6-7G(3). 34:1 IS CHANGED TO NOT CLEAR - 34:1 PENETRATIONS.
9. PROFILE LINE 8, MSA DELETED - REPLACED WITH TAA - RID VORTAC DECOMMISSIONING.
10. LP MINIMA ADDED - PIR RWY MARKINGS WITH A VG SURVEY, LPV AND LNAV/VNAV GQS PENETRATED.
11. LNAV MINIMA CHANGED FROM '1480/343' TO '1520/384', CAT C VISIBILITY CHANGED FROM 1 TO 1 1/8 AND CAT D VISIBILITY CHANGED FROM 1 1/4 TO 1 1/8 - NEW CONTROLLING OBSTACLE AND VISCHECK EVALUATION.
12. ADDITIONAL FLIGHT DATA, FAS OBST CHANGED FROM '1205 OL AIRPORT BEACON 394524N/0845100W' TO '1250 AAO 394300N/0845418W. 1270 AAO 394245N/0845402W' - LP FINAL CONTROLLING OBSTACLE ADDED, LNAV FINAL UPDATED WITH NEW CONTROLLING OBSTACLE.
13. ADDITIONAL FLIGHT DATA, OBST CHANGED FROM '1289 TOWER 394140N/0845538W' TO '1289 TOWER 394147N/0845537W' - UPDATED OBSTACLE DATA.
14. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'VDP AT 1.01 NM TO RW06' TO 'VDP AT 1.06 NM TO RW06' - UPDATED EVALUATION.
15. ADDITIONAL FLIGHT DATA, NOTE ADDED: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
16. ADDITIONAL FLIGHT DATA, MISSED APPROACH HOLDING COURSE INBOUND CHANGED FROM 238.28 TO 238.29 - MATCHING KRID RNAV (GPS) RWY 24 INTERMEDIATE COURSE.
17. NOTE DELETED: DME/DME RNP-0.3 NA - PER MEMO 257.
18. PBN REQUIREMENTS NOTE ADDED: RNP APCH - PER MEMO 257.
19. NOTE DELETED: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JAMES M COX DAYTON INTL ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND LNAV VISIBILITY CAT C, D 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
20. NOTE DELETED: VDP NA WHEN USING JAMES M COX DAYTON INTL ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
21. NOTE DELETED: PROCEDURE NA FOR ARRIVALS AT RID VORTAC VIA T213 NORTHEAST BOUND - RID VORTAC TO SNACK ROUTE DELETED PER FPT CHECKLIST.
22. PROFILE NOTE CHANGED FROM 'VGSI AND DESCENT ANGLES NOT COINCIDENT' TO 'VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})' - IAW 8260.19H PARA 8-6-9M(2).
23. NOTE ADDED: RWY 06 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - PUBLISHED IAW 8260.19H PARA 8-6-11K(3).
24. NOTE ADDED: CIRCLING RWY 15 NA AT NIGHT - PUBLISHED IAW 8260.19H PARA 8-6-11O(2)(G).
25. TAA ADDED: 1. 328/30 CW 148/30 (NOPT) 328/15 CW 148/15 2900, 328/15 CW 148/15 SNACK (IF/IAF) (FB) 2800. 2. 148/30 CW 328/30 148/15 CW 328/15 3000, 148/15 CW 328/15 SNACK (IAF) (FO) 2800 - RID VORTAC DECOMMISSIONING.

7/3/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 5/10/18:

1. UPDATED FAS DATA BLOCK INFORMATION, CHANGED REFERENCE PATH IDENTIFIER (APPROACH ID) FROM W06 TO W06A.
2. UPDATED FAS DATA BLOCK INFORMATION, CHANGED CRC REMAINDER FROM B78F9581 TO 14D033EE.
3. UPDATED AERONAUTICAL RADIO, INC (ARINC) CODING.



COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: ZID, DAY APP CON, AMGR

FLIGHT CHECKED BY

JOHN R CLOUGH

Digitally signed by
DAVID TEFFETELLER
Aug 28, 2018

OFFICE
FICO

DATE
07/18/2018

DEVELOPED BY

ANDREA CHANEY

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Aug 28, 2018

OFFICE
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DATE
05/10/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by
DAVID TEFFETELLER
Aug 28, 2018

OFFICE
AJV-5430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRID
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	394507.6110N
LTP/FTP LONGITUDE	0845057.1980W
LTP/FTP ELLIPSOIDAL HEIGHT	+03121
FPAP LATITUDE	394558.5455N
FPAP LONGITUDE	0844922.3635W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.04
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	14D033EE
<u>ADDITIONAL PATH POINT RECORD INFORMATION</u>	
ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03457
FPAP ORTHOMETRIC HEIGHT	+03457

