

**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 ID</u> ORF	<u>PROCEDURE NAME</u> RNAV (RNP) Y RWY 5	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> NORFOLK	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 26	<u>TDZE</u> 26	<u>SUPERSEDED</u> RNAV (RNP) Y RWY 5	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 9W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1985
				<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>
OMRIE		RILLO		TF	FB	1.00	222.46	12.11	5000
RILLO	IAF	MERFE		TF	FB	1.00	222.37	6.00	5000
MERFE	IF	CEGLI		TF	FB	1.00	244.45	5.72	4100
CEGLI		PEAAY	PFAF	RF	FB	1.00	(2.30 NM RADIUS CCW (CFFBT))	7.94	1600
CALEY	IF	PEAAY	PFAF	TF	FB	1.00	046.71	6.37	1600
PEAAY	PFAF	RW05	MAP	TF	FO	0.30	046.75	4.78	
RW05	MAP	TECHI		TF	FB	1.00	046.79	7.19	
TECHI		OUTLA		TF	FO	1.00	023.32	22.46	2000

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 ON TRACK 046.78 TO TECHI AND ON TRACK 023.32 TO OUTLA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT** SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT PEAAY
- FAC:** 046.75 **PFAF:** PEAAY **DIST FAF TO MAP:** **DIST FAF TO THLD:**
- MIN ALT:** PEAAY 1600
- DIST TO THLD FROM PFAF:** 4.78 **MM:** **IM:** **150 HAT:** **329 HAT:** 0.87 **GS ANT:**
- MIN GP INCPT:** 1600 **GP ALT AT PFAF:** PEAAY 1600 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 56.4
- MSA FROM:** RW05 2300



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM CEGLI: RF.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -4°C OR ABOVE 54°C.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PLANVIEW NOTE: RADAR REQUIRED
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART SPEED ICON IN PLANVIEW AT MERFE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT CEGLI: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

CHART MINIMUM 5000 AT OMRIE
CHART MINIMUM 1600 AT CALEY
CHART MANDATORY 5000 AT MERFE
HOLD SW, LT, 029.00 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 0.10 DA	350	2600	324	350	2600	324	350	2600	324	350	2600	324				
RNP 0.30 DA	454	4000	428	454	4000	428	454	4000	428	454	4000	428				



CHANGES - REASONS

1. TERMINAL ROUTES: LEG MERFE TO CEGLI COURSE UPDATED FROM 248.63 TO 244.45, DISTANCE UPDATED FROM 4.36 TO 5.72 AND ALTITUDE UPDATED FROM 3600 TO 4100 - FIX CEGLI RELOCATED PER ATC/FPT REQUEST FOR PROCEDURAL RE-ALIGNMENT.
2. TERMINAL ROUTES: LEG CEGLI TO CROOM UPDATED TO CEGLI TO PEAAY, DISTANCE UPDATED FROM 8.00 TO 7.94 AND ALTITUDE UPDATED FROM 1200 TO 1600 - FIX CEGLI RELOCATED PER ATC/FPT REQUEST FOR PROCEDURAL RE-ALIGNMENT AND PFAF CHANGED TO PEAAY TO UTILIZE SAME PFAF AS THE ILS PROCEDURE TO SAME RUNWAY.
3. TERMINAL ROUTES: CALEY TO COKLI AND COKLI TO CROOM REMOVED, REPLACED WITH CALEY TO PEAAY - ROUTE COMBINED AND UPDATED FROM DISTANCES 5.37 AND 2.26 UPDATED TO 6.37 - REMOVAL OF IF COKLI LEG PER ATC REQUEST AND CREATE SIMPLIFIED LEG FROM CALEY TO PEAAY.
4. TERMINAL ROUTES: CROOM TO RW05 UPDATED TO PEAAY TO RW05, LEG TYPE UPDATED FROM FB TO FO, COURE UPDATED FROM 046.76 TO 046.75 AND DISTANCE UPDATED FROM 3.53 TO 4.78 - PFAF UPDATED TO UTILIZE SAME PFAF AS THE ILS PROCEDURE TO THE SAME RUNWAY.
5. TERMINAL ROUTES: RW05 TO TECHI COURSE UPDATED FROM 046.78 TO 046.77 - NEW PFAF UTILIZED IN PROCEDURE ADJUSTING ALIGNMENT.
6. PROFILE: LINE 2: PROFILE STARTS AT: UPDATED FROM CROOM TO PEAAY - NEW PFAF UPDATED TO UTILIZE SAME PFAF AS THE ILS PROCEDURE TO THE SAME RUNWAY.
7. PROFILE: LINE 3: FAC UPDATED FROM 046.76 TO 046.75 AND PFAF: UPDATED FROM CROOM TO PEAAY - NEW PFAF UPDATED TO UTILIZE SAME PFAF AS THE ILS PROCEDURE TO THE SAME RUNWAY.
8. PROFILE: LINE 4: MIN ALT UPDATED FROM CROOM 1200 TO PEAAY 1600 - UTILIZATION OF THE SAME PFAF AS ILS PROCEDURE TO SAME RUNWAY, ALTITUDE UPDATED DUE TO AIRSPACE OBSTACLE AND FPT/ATC REQUEST FOR 1600.
9. PROFILE: LINE 5: DIST TO THLD FROM PFAF: UPDATED FROM 3.53 TO 4.78 AND HAT UPDATED FROM 324 HAT: 0.86 TO 329 HAT: 0.87 - NEW PFAF SELECTION AND NEW FINAL OBSTACLE.
10. PROFILE: LINE 6: MIN GP INCPT UPDATED FROM 1200 TO 1600 AND GP ALT AT PFAF UPDATED FROM CROOM 1200 TO PEAAY 1600 - SELECTION OF NEW PFAF TO ALIGN WITH ILS PROCEDURE TO SAME RUNWAY, ALTITUDE UPDATED DUE TO AIRSPACE OBSTACLE AND ATC/FPT REQUEST.
11. PROFILE: LINE 7: ADDED 20:1 IS CLEAR - IAW 8260.19K 8-6-7G3A.
12. PBN REQUIREMENT NOTES: ADDED RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM CEGLI: RF - IAW 8260.19K 8-6-8.
13. NOTES: REMOVED: CHART NOTE: GPS REQUIRED - NOW APPLIED TO PBN REQUIREMENTS NOTE.
14. NOTES: REMOVED CHART PLANVIEW NOTE ADJACENT TO OMRIE IF: RF REQUIRED - NOW APPLIED TO PBN REQUIREMENTS NOTE.
15. NOTES: CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19K 8-6-10 M1.
16. ADDITIONAL FLIGHT DATA: REMOVED ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER 1: F, ROUTE TYPE QUALIFIER 2: S - NO LONGER REQUIRED IN CRITERIA.
17. REMOVED #TCH 77.3 MSL (DO NOT CHART) - NO LONGER REQUIRED IN CRITERIA.
18. NOTES: CHART NOTE UPDATED FROM CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9°C (16°F) OR ABOVE 54°C (130°F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -4°C OR ABOVE 54°C (130°F)" - UPDATED TEMPERATURE DATA UTILIZED (2020-2024), AND F DESIGNATIONS REMOVED, NO LONGER REQUIRED PER CRITERIA.
19. NOTES: ADDED CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS - REMOVAL OF THE IAF CALLEY TO COKLI TO CROOM LEG AND REPLACED AS IF LEG FROM CALEY TO PEAAY NECESSITATES THE REQUIREMENT TO IDENTIFY MULTIPLE IF LOCATION IN PLANVIEW, IAW 8260.19K 8-6-7 B(3)B.

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA

OTHER: ZDC, ORF APP CON, ORF ATCT, AIRPORT MANAGER, VA DOT, ATA

FLIGHT CHECKED BY

MICHAEL W PENDERGRASS

Digitally signed by

RAKE MCGRAW
May 18, 2026

OFFICE
AJF

DATE
05/14/2026

DEVELOPED BY

RALPH P. MILLER

Digitally signed by

RAKE MCGRAW
May 18, 2026

OFFICE
AJV-A422

DATE
01/23/2026

APPROVED BY

RAKE MCGRAW

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RAKE MCGRAW
May 18, 2026

OFFICE
AJV-A422

DATE

TITLE
MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
ORF	RNAV (RNP) Y RWY 5	2	NORFOLK	VA	26	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM OMRIE **TO** RILLO

RNP DISTANCE PAT MAP HAT HMAS

1.00 12.11

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	371045.00N/0755927.00W	273	215	8	4B	1000				AT3719 AC8	5000
TERRAIN	370209.00N/0761157.00W	0 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM RILLO **TO** MERFE

RNP DISTANCE PAT MAP HAT HMAS

1.00 6.00

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (51-000560)	365549.48N/0761217.56W	228	20	3	1A	1000				AC3 AT3769	5000
TERRAIN	365724.00N/0761536.00W	42 (0)								AS1500	1500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
ORF

PROCEDURE NAME
RNAV (RNP) Y RWY 5

AMDT NO.
2

CITY
NORFOLK

STATE
VA

AIRPORT ELEVATION
26

FACILITY
RNAV

INTERMEDIATE

FROM MERFE **TO** CEGLI

RNP 1.00 **DISTANCE** 5.72 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
CRANE (51-069772)	365413.21N/0761932.93W	462	250	50	4D	500				AC50 AT3088	4100
TERRAIN	365303.00N/0761918.00W	62 (100)								AS1500	1600

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM CEGLI **TO** PEAAY

RNP 1.00 **DISTANCE** 7.94 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (51-073226)	365004.89N/0761609.29W	555	50	20	2C	500				AC20	1100
TERRAIN	364951.00N/0761936.00W	55 (100)								AS1500	1600

COMPUTATIONS

RF SEGMENT **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**
CEGLI-PEAAY 4100 210 229.08 4073.80 43.03 2.30 25.13 0.00 0.00 (CFFBT)/7.94 NM

SEGMENT REMARKS:



AIRPORT ID
ORF

PROCEDURE NAME
RNAV (RNP) Y RWY 5

AMDT NO.
2

CITY
NORFOLK

STATE
VA

AIRPORT ELEVATION
26

FACILITY
RNAV

INTERMEDIATE

FROM
CALEY **TO**
PEAAY

RNP 1.00 **DISTANCE** 6.37 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (51-073226)	365004.89N/0761609.29W	555	50	20	2C	500				AC20	1100
TERRAIN	364448.00N/0761724.00W	111 (100)								AS1500	1600

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

FINAL

FROM
PEAAY **TO**
RW05

RNP 0.10 **DISTANCE** 4.78 **PAT** **MAP** DA **HAT** 324 **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
POLE (51-072298)	365249.84N/0761232.84W	74	250	50	4D		20.64:1			AC50 MA31 XP14	350

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

XP=MAINTAIN CURRENT MINS



AIRPORT ID
ORF

PROCEDURE NAME
RNAV (RNP) Y RWY 5

AMDT NO.
2

CITY
NORFOLK

STATE
VA

AIRPORT ELEVATION
26

FACILITY
RNAV

FINAL

FROM
PEAAY

TO
RW05

RNP
0.30

DISTANCE
4.78

PAT

MAP
DA

HAT
428

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE	365306.00N/0761327.00W	137	215	8	4B		20.61:1			AC8 MA19 XP39	454

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP=MAINTAIN CURRENT MINS

MISSED APPROACH: LEVEL SURFACE

FROM
DA

TO
OUTLA

RNP
0.10-1.00

DISTANCE

PAT

MAP

HAT

HMAS
120

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TRANSMISSION_LINE (51-070268)	365249.47N/0761301.39W	57	250	50	4D		ASC				2000
TOWER (51-001347)	371544.72N/0760045.58W	748	20	3	1A	1000					1800
TERRAIN	371936.00N/0760045.00W	55 (100)								AS1500	1600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT ID
ORF

PROCEDURE NAME
RNAV (RNP) Y RWY 5

AMDT NO.
2

CITY
NORFOLK

STATE
VA

AIRPORT ELEVATION
26

FACILITY
RNAV

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW05 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	APPROACH
RW23 - MALSR, C/LINE, HIRL, PAPI-4L	PIR-G	ROLL OUT

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
21.1

TCH
56.4

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
71.4

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE 1000

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-4C (+25F)

CRITICAL HIGH

+54C (+130F)

ACT

-4C

APT ISA

+14.95C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION 100FT.

"RADAR REQUIRED" NOTE ADDED PER ATC REQUEST.



AIRPORT ID
ORF

PROCEDURE NAME
RNAV (RNP) Y RWY 5

AMDT NO.
2

CITY
NORFOLK

STATE
VA

AIRPORT ELEVATION
26

FACILITY
RNAV

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	1.80
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	037.75
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.78
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	037.75
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN) 365316.92N/0761222.32W
ARP COORDINATES 365344.27N/0761155.92W
RUNWAY APCH END AND DIST FURTHEST FROM ARP RUNWAY 23 DISTANCE 0.74 NM
FAF COORDINATES 364929.79N/0761601.31W
FIX NAME COORDINATES

REMARKS

THLD DISPLACED 1000FT, ACTUAL COORDINATES: 365309.10N/0761229.86W

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
RALPH P. MILLER	AJV-A422	01/23/2026	AERONAUTICAL INFORMATION SPECIALIST

