

**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> NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	<u>AIRPORT ID</u> KOFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> NORFOLK	<u>STATE</u> NE
<u>AIRPORT ELEVATION</u> 1573	<u>TDZE</u> 1573	<u>SUPERSEDED</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 12/17/2009	<u>MAG VAR</u> 5E
<u>EPOCH YEAR</u> 2005					
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
OLU VOR/DME		VAUNN		TF	FB	2.00	351.97	18.62	4000
TTORI	IAF	AWNUL	NOPT	TF	FB	1.00	104.24	7.50	3900
VAUNN	IAF	AWNUL	NOPT	TF	FB	1.00	284.45	7.50	3900
AWNUL	IF/IAF	PAPNE		TF	FB	1.00	014.34	5.92	3300
PAPNE	FAF	IQUXI/2.07 NM TO RW02		TF	FB	0.30	014.38	3.20	
IQUXI/2.07 NM TO RW02		RW02	MAP	TF	FO	0.30	014.38	2.07	
RW02	MAP	1773 MSL		CA			014.38		
1773 MSL		AZATY		DF	FO	1.00			3900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW02

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3900 DIRECT AZATY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD S AWNUL, RT, 014.34 INBOUND, 3900 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 014.38 FAF: PAPNE DIST FAF TO MAP: 5.27 DIST FAF TO THLD: 5.27

4. MIN ALT: AWNUL 3900, PAPNE 3300, IQUXI/2.07 NM TO RW02 2280*

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 200 HAT: 0.47 GS ANT: MM: IM:

6. MIN GP INCPT: 3300 GP ALT AT FAF : PAPNE 3300 OM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 49.0

8. MSA FROM: RW02 4800

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OLU VORTAC ON V71 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.31 NM TO RW02*
*LNAV ONLY
WAAS CHANNEL #50120
REFERENCE PATH ID: W02A
CHART FAS OBST: 1779 TREE 415718N/0972745W.
1990 AAO 415407N/0972949W.
HOLD N, RT, 194.45 INBOUND
LTP HAE: 454.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1773	1/2	200	1773	1/2	200	1773	1/2	200	1773	1/2	200			
LNAV/VNAV DA	2038	1	465	2038	1	465	2038	1	465	2038	1	465			
LNAV MDA	2040	1/2	467	2040	1/2	467	2040	1	467	2040	1	467			
CIRCLING	2060	1	487	2100	1	527	2260	2	687	2360	2 1/2	787			



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	KOKF	RNAV (GPS) RWY 2	2	NORFOLK	NE

CHANGES - REASONS

1. CHANGED ALL RUNWAY REFERENCES FROM RWY 1 TO RWY 2 - RUNWAY RENUMBERED
2. CHANGED FEEDER FROM "OLU VOR/DME TO VEPCU 347.84/19.24" TO "OLU VOR/DME TO VAUNN 351.97/18.62" - MOVED IAF 1.5 NM EAST TO MEET MINIMUM LEG LENGTH REQUIREMENT; FIX NAME CHANGED DUE TO FIX MOVING IN EXCESS OF 1NM.
3. DELETED FEEDER "ERGUC TO SAHIW" AND ASSOCIATED NOTES - ATC REQUEST.
4. CHANGED INITIAL "SAHIW TO AWNUL 104.22/6.00" TO "TTORI TO AWNUL 104.24/7.50 - MOVED IAF 1.5 NM WEST TO MEET MINIMUM LEG LENGTH REQUIREMENT; FIX NAME CHANGED DUE TO FIX MOVING IN EXCESS OF 1NM.
5. CHANGED "VEPCU TO AWNUL 284.47/6.00" TO "VAUNN TO AWNUL 284.45/7.50" - MOVED IAF 1.5 NM EAST TO MEET MINIMUM LEG LENGTH REQUIREMENT; FIX NAME CHANGED DUE TO FIX MOVING IN EXCESS OF 1NM.
6. CHANGED INTERMEDIATE AWNUL TO PAPNE DISTANCE FROM 6.00 TO 5.92 - NEW PFAF LOCATION BASED ON TARGETS COMPUTATION; CHANGED TCH TO MATCH VGSI
7. LINE 2 ADDED "MAX 6000" AT H-I-L FIX - IAW 8260.19 8-6-7.B.(2).
8. CHANGED FINAL APPROACH COURSE FROM 014.37 TO 014.38 - NEW RUNWAY DATA.
9. CHANGED BOTH DIST FAF TO MAP AND DIST FAF TO THLD FROM 5.19 TO 5.27 - MOVED PFAF 480.57 FT SOUTH.
10. ADDED "IQUXI/2.07 NM TO RW02 2280"" TO LINE 4 - ADDED SDF FOR OPTIMUM DESCENT.
11. CHANGED "DISTANCE TO THLD FROM 377 HAT: 1.03NM" TO "200 HAT: 0.47" - HAT AND DISTANCE CHANGED DUE TO LPV ALL SURFACES CLEAR; FORMAT CHANGED IAW 8260.19H 8-6-7.E.(3).
12. CHANGED TCH FROM 48 TO 49 - TO MATCH VGSI
13. CHANGED NOTE "34:1 IS NOT CLEAR" TO "34:1 IS CLEAR" AND ADDED "20:1 IS CLEAR"; DELETED "CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA" FROM NOTES SECTION. - ALL VISUAL SURFACES ARE CLEAR.
14. DELETED "CHART FAS OBST: 1738 TREE 415718N/0972605W" AND "CHART FAS OBST: 1765 TREE 415704N/0972719W"; ADDED "CHART FAS OBST: 1779 TREE 415718N/0972745W." TO ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBST; IAW 8260.19H 8-6-10.C. NONPRECISION CONTROLLING OBSTACLES MUST BE SHOWN AS THE FAS OBSTACLE.
15. CHANGED VDP DISTANCE FROM 1.25 MILES TO 1.31 NM - INCREASED THE MDA AND CHANGED TCH TO MATCH ILS.
16. CHANGED REFERENCE PATH ID FROM "W01A" TO "W02A" - RUNWAY NUMBER CHANGE.
17. ADDED "1990 AAO 415407N/0972949W" TO ADDITIONAL FLIGHT DATA AND DELETED "CHART: 1904 ELEVATOR 415346N/0972751W" - NEW 7:1 OBSTACLE; IAW 8260.19H 8-6-10.E.(2).
18. ADDED "CHART: CIRCLING ICON" - NEW CIRCLING RADIUS APPLIED.
19. CHANGED LPV DA/HAT FROM 1950/377 TO 1773/200 CATS A, B, C AND VIS FROM 3/4 TO 1/2 CATS A, B, C - ALL SURFACES CLEAR; VISIBILITIES IAW 8260.3D TABLE 3-3-1.
20. CHANGED LNAV/VNAV DA/HAT FROM 2100/527 TO 2038/465 CATS A, B, C AND VIS FROM 1 1/4 TO 1 CATS A, B, C - NEW CONTROLLING OBSTACLE; VISIBILITIES IAW 8260.3D TABLE 3-3-1.
21. CHANGED LNAV MDA/HAT FROM 2020/447 TO 2040/467 CATS A, B, C; CHANGED VIS CATS A AND B FROM 3/4 TO 1/2 AND CAT C FROM 3/4 TO 1 - NEW CONTROLLING OBSTACLE; VISIBILITIES IAW 8260.3D TABLES 3-3-3, 3-3-4, AND 3-3-1 RESPECTIVELY.
22. CHANGED CIRCLING CAT A MDA/HAA FROM 2080/507 TO 2060/487, CAT B FROM MDA/HAA 2080/507 TO 2100/527 AND CAT C MDA/VIS/HAA FROM 2080/1 1/2/507 TO 2260/2/687 - NEW CONTROLLING OBSTACLES; VISIBILITIES IAW 8260.3D TABLE 3-3-7.
23. ADDED CAT D TO ALL LINES OF MINIMA - ATC REQUEST.
24. CHANGED INOP NOTE FROM "FOR INOPERATIVE MALSR, INCREASE LPV ALL CATS VISIBILITY TO 1 1/4 AND LNAV CAT A/B VISIBILITY TO 1" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS AND LNAV CATS C AND D VISIBILITY TO 1 3/8 SM" - NEW NON-STANDARD VISIBILITIES FOR INOPERATIVE ALS.
25. CHANGED TEMPERATURE NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22°C OR ABOVE 54°C" - USED 5-YEAR HISTORY (2015-2019); NO LONGER REQUIRED TO DOCUMENT FAHRENHEIT.
26. DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: "RNP APCH". - IAW 8260.19H 6-6-8.B AND 8260.58A TABLE 1-2-1.
27. ADDED ALTERNATE MINS "CAT D 800-2 1/2" - NPA ALTERNATE MINS ARE NON-STANDARD.
28. MOVED BACK-UP ALTIMETER NOTE AND ALL ASSOCIATED NOTES TO 8260-9 PART C - IAW 8260.19H 8-6-9 F.(2)
29. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OLU VORTAC ON V71 SOUTHEAST BOUND" - DELETED FEEDER "ERGUC TO SAHIW".
30. CHANGED AIRPORT NAME FROM "KARL STEFAN MEMORIAL" TO "NORFOLK RGNL/KARL STEFAN MEMORIAL FLD" - NEW AIRPORT DATA.
31. CHANGED MA HOLDING COURSE FROM 194.46 TO 194.45 - ALIGN WITH RNAV (GPS) RWY 20 HIL.
32. FAS DATA: CHANGED LTP AND FPAP - NEW RUNWAY DATA.
33. FAS DATA: CHANGED LENGTH OFFSET - NEW FPAP LAT/LONG.
34. FAS DATA: CHANGED VAL FROM 50.0 TO 35.0 - NEW LPV HAT IS LESS THAN 250.
35. CHANGED THE CRC REMAINDER FROM "F298BF1D" TO "4B8B85EF" - CHANGES TO LTP LAT/LONG, FPAP LAT/LONG, LENGTH OFFSET, TCH, AND VAL



COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP ARTCC, ARPT MGR

FLIGHT CHECKED BY

PATRICK MURRAY

Digitally signed by

DONALD H LANIER

Jun 23, 2020

OFFICE

FICO

DATE

6/17/2020

DEVELOPED BY

JACOB MAXFIELD

Digitally signed by

JACOB MAXFIELD

Feb 05, 2020

OFFICE

AJV-A431

DATE

01/15/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by

DONALD H LANIER

Jun 23, 2020

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOFK
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	415839.3885N
LTP/FTP LONGITUDE	0972615.0130W
LTP/FTP ELLIPSOIDAL HEIGHT	+04546
FPAP LATITUDE	420003.4615N
FPAP LONGITUDE	0972535.3130W
THRESHOLD CROSSING HEIGHT (TCH)	00049.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	4B8B85EF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04794
FPAP ORTHOMETRIC HEIGHT	+04794



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

<u>AIRPORT</u> NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	<u>AIRPORT ID</u> KOFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>AMDT NO.</u> 2	<u>CITY</u> NORFOLK	<u>STATE</u> NE	<u>AIRPORT ELEVATION</u> 1573	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

<u>FROM</u> OLU VOR/DME	<u>TO</u> VAUNN
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<u>RNP</u>	<u>DISTANCE</u> 18.62	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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>
1.WINDMILL (31-024477)	414034.97N/0972347.29W		2145	250	50	4D	1000				AT765	4000
2.TERRAIN	414221.00N/0972427.00W		1729 (1700)								AS1500	3200

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

<u>FROM</u> TTORI	<u>TO</u> AWNUL
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<u>RNP</u>	<u>DISTANCE</u> 7.50	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<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>
3.TOWER (31-001026)	414950.00N/0974113.00W		2310	500	50	5D	1000				AT590	3900
4.TERRAIN	415003.00N/0974051.00W		1873 (1900)								AS1500	3400

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INITIAL

FROM
VAUNN

TO
AWNUL

RNP	DISTANCE 7.50	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (31-000953)	414616.00N/0972846.00W		2169	250	50	4D	1000				AT731	3900
6.TERRAIN	414733.00N/0973242.00W		1751 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
AWNUL (IF/IAF)

TO
PAPNE

RNP	DISTANCE 5.92	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	415124.00N/0973448.00W		2025	164	98	4E	500				AC98	2700
8.TERRAIN	414839.00N/0973333.00W		1797 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM
PAPNE

TO
RW02

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.27		DA		200							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1773

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
PAPNE

TO
RW02

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.27		DA		465							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.TREE (31-041773)	415727.39N/0972604.68W		1744	20	3	1A		23.76:1				2038

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

SLOPED SURFACE: 23.87:1



FINAL: LNAV

FROM

PAPNE

TO

IQUXI/2.07 NM TO RW02

<u>RNP</u>	<u>DISTANCE</u> 3.20	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<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>
10.AAO	415439.65N/0972856.96W		1940	50	20	2C	250				RA80	2280

COMPUTATIONS

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

FINAL: LNAV STEPDOWN

FROM

IQUXI/2.07 NM TO RW02

TO

RW02

<u>RNP</u>	<u>DISTANCE</u> 2.07	<u>PAT</u>	<u>MAP</u> RW02	<u>HAT</u> 467			<u>HMAS</u>					
<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>
11.TREE (31-041382)	415718.42N/0972744.60W		1779	20	3	1A	250				SA-2	2040

COMPUTATIONS

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



HOLD-IN-LIEU OF PT

FROM

AWNUL

TO

P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TOWER (31-000953)	414616.00N/0972846.00W		2169	250	50	4D	1000				AT721	3900
12.TERRAIN	414854.00N/0973518.00W		1811 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM

DA

TO

AZATY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 1608					
<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>
								ASC				3900
13.AAO	421021.00N/0971809.00W		2084	164	98	4E	1000					3100
14.TERRAIN	421048.00N/0972239.00W		1853 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

AZATY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1877					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
13.AAO	421021.00N/0971809.00W		2084	164	98	4E	1000					3100
14.TERRAIN	421048.00N/0972239.00W		1853 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM

RW02

TO

AZATY

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1940					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
13.AAO	421021.00N/0971809.00W		2084	164	98	4E	1000					3100
14.TERRAIN	421048.00N/0972239.00W		1853 (1900)								AS1500	3400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT

NORFOLK RGNL/KARL

STEFAN MEMORIAL FLD

AIRPORT ID

KOFK

PROCEDURE NAME

RNAV (GPS) RWY 2

AMDT NO.

2

CITY

NORFOLK

STATE

NE

AIRPORT ELEVATION

1573

FACILITY

RNAV

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
9.TREE (31-041773)	415727.39N/0972604.68W	1.31	487	1744	20	3	1A	300			2060
CATEGORY B											
15.TREE (31-040930)	415720.05N/0972753.99W	1.86	527	1782	20	10	1B	300			2100
CATEGORY C											
16.TOWER (31-000484)	420221.00N/0972546.00W	2.93	687	1891	250	50	4D	300		AC50	2260
CATEGORY D											
17.TOWER (31-000197)	420156.00N/0972208.00W	3.83	787	2042	100	20	3C	300			2360

CIRCLING REMARKS:

MSA

CENTER

RW02

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (31-000596)	413228.00N/0974046.00W	198	28.3	3730	500	50	5D	1000			4800

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY

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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KOFK	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOFK	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS	<u>LOCATION</u> KLCG	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLCG	<u>DISTANCE</u> 25.36	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 79

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KOFK 1573, KLCG 1432
RA = 78.2.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - MIRL (PCL), PAPI-4L (PCL)		NPI-G	
RW20 - HIRL (PCL), PAPI-4L (PCL)		NPI-G	
RW32 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW02 - MALSR (PCL), HIRL (PCL), PAPI-4L (PCL)		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1572.8	<u>TCH</u> 49.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 49.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -21C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -26C	<u>APT ISA</u> +11.89C
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CRITICAL TEMPERATURE REMARKS:
AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2015-2019).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 976 HIGH TEMP 1288.

"VISUAL PORTION OF FINAL" PENETRATIONS



AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	KOFK	RNAV (GPS) RWY 2	2	NORFOLK	NE	1573	RNAV
HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS and/or 5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS							
PART C: GENERAL REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. ASSUMED VEGETATION HEIGHT 100FT PER FPT. WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAYNE ALTIMETER SETTING AND INCREASE LPV DA TO 1852 FEET, INCREASE LNAV/VNAV DA TO 2117 FEET AND VISIBILITY 1/8 SM; INCREASE ALL MDAS 80 FEET AND LNAV CAT C AND D 1/8 SM; INCREASE CIRLCING CAT C AND D 1/4 SM. FOR INOPERATIVE ALS WHEN USING WAYNE ALTIMETER SETTING, INCREASE LPV ALL CATS TO 7/8 SM. BARO-VNAV AND VDP NA WHEN USING WAYNE ALTIMETER SETTING. ORDER 8260.3 CHAPTER 2 APPLIED TO 1990 AAO 415407.00N/0972949.00W. ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.							
QUALITY 19 CHECKED							
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<u>AIRPORT</u> NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	<u>AIRPORT ID</u> KOFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>AMDT NO.</u> 2	<u>CITY</u> NORFOLK	<u>STATE</u> NE	<u>AIRPORT ELEVATION</u> 1573	<u>FACILITY</u> RNAV
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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	3.70
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	019.38
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1800
DISTANCE FROM	THLD	TO 1500FT POINT	5.27
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.14
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	091.38
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1800
THRESHOLD COORDINATES (IF STR-IN)	415839.39N/0972615.01W		
ARP COORDINATES	415907.66N/0972606.41W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 14 DISTANCE 0.53 NM		
FAF COORDINATES	415340.81N/0972835.76W		
FIX NAME COORDINATES			
REMARKS			

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PART E: PREPARED BY							
<u>NAME</u> JACOB MAXFIELD	<u>OFFICE</u> AJV-A431			<u>DATE</u> 01/15/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

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