

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>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	KOFK	RNAV (GPS) RWY 20	2	NORFOLK	NE	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1573	1545	RNAV (GPS) RWY 19	1B	12/17/2009	5E	2005
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
RNAV			ROUTINE			

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>
HARDS		REDII		TF	FB	1.00	186.78	21.53	3900
REDII	IAF	AZATY	NOPT	TF	FB	1.00	104.35	7.50	3900
YANKK	IAF	AZATY	NOPT	TF	FB	1.00	284.46	7.50	3900
AZATY	IF/IAF	EJEHO		TF	FB	1.00	194.45	5.94	3400
EJEHO	FAF	RW20	MAP	TF	FO	0.30	194.44	5.74	
RW20	MAP	1795 MSL		CA			194.44		
1795 MSL		AWNUL		DF	FO	1.00			3900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW20

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3900 DIRECT AWNUL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N AZATY, RT, 194.45 INBOUND, 3900 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAF: 194.44FAF: EJEHODIST FAF TO MAP: 5.74DIST FAF TO THLD: 5.74

4. MIN ALT: AZATY 3900, EJEHO 3400

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.70GS ANT:

6. MIN GP INCPT: 3400GP ALT AT FAF : EJEHO 3400OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 39.7

8. MSA FROM: RW20 3900

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HARDS ON V181 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 014.34 INBOUND.
FAS OBST: 1819 AAO 420312N/0972316W.
DISTANCE TO THLD FROM 250 HAT: 0.70 NM.
CHART VDP AT 1.59 NM TO RW20*
*LNAV ONLY.
WAAS CHANNEL # 56220
REFERENCE PATH ID: W20A
CHART CIRCLING ICON.
LTP HAE: 442.3 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	1795	1	250	1795	1	250	1795	1	250	1795	1	250			
LNAV/VNAV DA	1799	1	254	1799	1	254	1799	1	254	1799	1	254			
LNAV MDA	2080	1	535	2080	1	535	2080	1 1/2	535	2080	1 1/2	535			
CIRCLING	2080	1	507	2100	1	527	2260	2	687	2360	2 1/2	787			



CHANGES - REASONS

1. PROCEDURE NAME CHANGED FROM RNAV (GPS) RWY 19 TO RNAV (GPS) RWY 20 - RUNWAY THRESHOLD MOVED 297 FEET AND RUNWAY RENUMBERED.
2. FEEDER: HARDS TO REDII COURSE/DISTANCE CHANGED FROM 182.87/21.78 TO 186.78/21.53 - REDII MOVED DUE TO MIN LEG LENGTH REQUIRMENT.
3. INITIAL: REDII TO AZATY COURSE/DISTANCE CHANGED FROM 104.38/6.00 TO 104.35/7.50 - REDII MOVED DUE TO MIN LEG LENGTH REQUIRMENT.
4. INITIAL: YANKK TO AZATY COURSE/DISTANCE CHANGED FROM 284.54/6.00 TO 284.46/7.50 - YANKK MOVED DUE TO MIN LEG LENGTH REQUIRMENT.
5. INTERMEDIATE: AZATY TO EJEHO COURSE/DISTANCE CHANGED FROM 194.46/6.00 TO 194.45/5.94 - EJEHO MOVED 383 FT DUE TO TCH CHANGED FROM 48.0 TO 39.7.
6. FINAL: EJEHO TO MAP COURSE/DISTANCE CHANGED FROM 194.43/5.63 TO 194.44/5.74 - RUNWAY 02/20 MOVED 297 FEET.
7. ADDED LEG TYPES AND RNP VALUES TO TERMINAL ROUTES - IAW 8260.19H 8-6-4 A (6).
8. ADDED MAX 6000 TO HOLD-IN-LIEU ON LINE 2 - IAW 8260.19H PARA 8-6-7 B (2).
9. ADDED CIRCLING ICON - CURRENT CIRCLING AREAS EVALUATED.
10. ADDED 20:1 IS CLEAR - INCLUDED ON NEW FORM.
11. LINE 3: FAC CHANGED FROM 194.43 TO 194.44 AND DIST FAF TO MAP AND THLD CHANGED FROM 5.63 TO 5.74 - EJEHO MOVED 383 FT DUE TO TCH CHANGED FROM 48.0 TO 39.7.
12. AMENDED AND RELOCATED "DISTANCE TO THLD FROM 277 HAT: 0.76 NM" FROM ADDITIONAL FLIGHT DATA TO "DISTANCE TO THLD FROM 250 HAT: 0.70" TO PROFILE LINE 5 - 8260.19H, 8-6-7 E (3) AND NEW TARGETS BUILD.
13. ADDITIONAL FLIGHT DATA: REFERENCE PATH ID CHANGED FROM W19A TO W20A - RUNWAY RENUMBERED.
14. AMENDED LPV DA/HAT FROM 1820/277 TO 1795/250 - NEW TARGETS EVALUATION.
15. AMENDED LNAV/VNAV DA/HAT FROM 1900/357 TO 1799/254 ALL CATS - NEW TARGETS EVALUATION.
16. AMENDED LNAV MDA/HAT FROM 2180/637 TO 2080/535 ALL CATS - NEW TARGETS EVALUATION.
17. AMENDED LNAV/VNAV VIS FROM 1 1/4 TO 1 ALL CATS - NEW TARGETS EVALUATION AND VISICHECK.
18. AMENDED LNAV CAT C VIS FROM 1 3/4 TO 1 1/2 AND CAT D FROM 2 TO 1 1/2- NEW TARGETS EVALUATION AND VISICHECK.
19. AMENDED CIRCLING CAT A MDA/HAA FROM 2180/607 TO 2080/507 - NEW TARGETS EVALUATION.
20. AMENDED CIRCLING CAT B MDA/HAA FROM 2180/607 TO 2100/527 - NEW TARGETS EVALUATION.
21. AMENDED CIRCLING CAT C MDA/VIS/HAA FROM 2180, 1 3/4, 607 TO 2260, 2, 687 - NEW TARGETS EVALUATION AND VISICHECK.
22. AMENDED CIRCLING CAT D MDA/VIS/HAA FROM 2180, 2, 607 TO 2360, 2 1/2, 787 - NEW TARGETS EVALUATION AND VISICHECK.
23. ADDED CHART VDP AT 1.59 NM TO RW20* - 20:1 PENETRATIONS NOW CLEAR PER NEW VG SURVEY AND EVALUATION.
24. REMOVED CHART NOTE DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE RNP APCH - IAW 8260.19H PARAGRAPH 1-1-5 F (14).
25. CRC REMAINDER CHANGED FROM "3B319275" TO "0BE82B92" - UPDATED RUNWAY AND APPROACH DATA, LTP/FTP AND FPAP COORDINATES, LTP/FTP ELLIPSOIDAL HEIGHT, LTP/FPAP ORTHO HEIGHTS, TCH AND LENGTH OFFSET.
26. DELETED FEEDER ROUTE FROM PENDE TO VEDTI FIX - FEEDER DELETED PER ATC REQUEST.
27. DELETED CHART PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT PENDE VIA V219 NORTHEAST BOUND" - FEEDER DELETED PER ATC REQUEST.
28. REMOVED BACKUP ALTIMETER NOTES - PRIMARY WEATHER SOURCE ON WMSCR, BACKUP NOTES MOVED TO 8260-9 PART C FOR CONTINGENCY.
29. CHANGED BARO-VNAV NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 46C (114F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C OR ABOVE 54C" - UPDATED CRITICAL TEMPERATURE BASED ON 4 YEAR AVERAGE 2014-2018 (2019 DATE INCOMPLETE); REVISED CRITERIA.
30. ADDITIONAL FLIGHT DATA: REMOVED "CHART FAS OBST: 1615 TREE 420007N/0972542W" AND "CHART FAS OBST: 1890 TOWER 420221N/0972546W" AND ADDED "FAS OBST: 1819 AAO 420312N/0972316W" - IAW 8260.19H PARA 8-6-10.C AND NEW TARGETS EVALUATION.
31. ADDED CA LEG TO TERMINAL ROUTES - IAW 8260.58A PARA 3-5-2.
32. LINE 7: CHANGED TCH FROM 48.0 TO 39.7 - RUNWAY 02/20 MOVED 297 FEET RESULTING IN NEW TCH CALCULATION.
33. ADDED ALTERNATE MINIMUMS NOTE: "STANDARD - CAT D 800-2 1/2" - CAT D MINIMUMS INCREASED.
34. REMOVED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - UPDATED PROCEDURE TO MATCH VGSI DATA.
35. WAYPOINT NAME CHANGED FROM SIMZU TO REDII - FIX MOVED GREATER THAN 1 NM AND ATC DIRECTED.
36. WAYPOINT NAME CHANGED FROM VEDTI TO YANKK - FIX MOVED GREATER THAN 1 NM AND ATC DIRECTED.
37. REMOVED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA AND ADDED CHART NOTE: CHART NOTE: RWY 20 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - IAW 8260.19H, 8-6-11 K (3).
38. UPDATED TDZE FROM 1543 TO 1545 - RUNWAY 02/20 MOVED 297 FEET.

07/09/20: THIS IS AN UPDATED COPY OF THE FORM APPROVED ON 01/02/20.

1. CONTROLLING OBSTACLE UPDATED FOR THE FOLLOWING 3 SEGMENTS: INITIAL FROM YANKK, INITIAL FROM REDII AND INTERMEDIATE FROM AZATY. SEGMENT ALTITUDES REMAIN THE SAME.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR.

FLIGHT CHECKED BY
JEFFREY WAYNE HARING

Digitally signed by
WARDELL HENNING
Jul 14, 2020

OFFICE
FIOG

DATE
07/01/2020

DEVELOPED BY
WARDELL HENNING (JAY BAGGETT)

Digitally signed by
WARDELL HENNING
Jul 14, 2020

OFFICE
AJV-A432

DATE
01/02/2020

APPROVED BY
GEORGE DAVIS

Digitally signed by
WARDELL HENNING
Jul 14, 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	RW20
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W20A
LTP/FTP LATITUDE	415930.6560N
LTP/FTP LONGITUDE	0972550.8075W
LTP/FTP ELLIPSOIDAL HEIGHT	+04423
FPAP LATITUDE	415806.5815N
FPAP LONGITUDE	0972630.4975W
THRESHOLD CROSSING HEIGHT (TCH)	00039.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	0BE82B92

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04670
FPAP ORTHOMETRIC HEIGHT	+04670



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 20	<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

FROM
HARDS

TO
REDII

<u>RNP</u>	<u>DISTANCE</u> 21.53	<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.TOWER (31-020340)	421917.00N/0972541.20W		2220	500	125	5E	1000				AT680	3900
2.TERRAIN	422906.00N/0972648.00W		1879 (1879)								AS1500	3379

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
REDII

TO
AZATY

<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.WINDMILL (31-043595)	421034.17N/0971814.44W		2351	250	50	4D	1000				AT549	3900
4.TERRAIN	421118.00N/0971830.00W		1870 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
YANKK

TO
AZATY

RNP	DISTANCE 7.50	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.WINDMILL (31-043595)	421034.17N/0971814.44W		2351	250	50	4D	1000				AT549	3900
5.TERRAIN	421121.00N/0971803.00W		1889 (1900)								AS1500	3400

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

INTERMEDIATE

FROM
AZATY (IF/IAF)

TO
EJEHO

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.94											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3.WINDMILL (31-043595)	421034.17N/0971814.44W		2351	250	50	4D	500					2900
6.TERRAIN	421106.00N/0971818.00W		1883 (1900)								AS1500	3400

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: LPV

FROM
EJEHO

TO
RW20

<u>RNP</u>	<u>DISTANCE</u> 5.74	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<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>
7.TREE (31-040734)	415949.03N/0972548.72W		1593	20	3	1A		34.00:1			SA-2	1795

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
EJEHO

TO
RW20

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	5.74		DA		254							
<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>
8.TOWER (31-041956)	420033.84N/0972526.50W		1638	20	3	1A	161					1799

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

VNAV OCS SLOPE: 24.22:1.



FINAL: LNAV

FROM
EJEHO

TO
RW20

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.74		RW20			535						
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	420311.89N/0972316.34W		1819	50	20	2C	250					2080

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
AZATY

TO
P-5

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
		P-5										
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.TOWER (31-001197)	421415.00N/0971642.00W		2799	50	20	2C	1000				AT101	3900
11.TERRAIN	421306.00N/0971848.00W		1893 (1900)								AS1500	3400

COMPUTATIONS

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



MISSED APPROACH : LPV

FROM

DA

TO

AWNUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1602					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
12.AAO	414850.00N/0973333.00W		1950	50	20	2C	1000					3000
13.TERRAIN	414845.00N/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:

MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

AWNUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1638					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
12.AAO	414850.00N/0973333.00W		1950	50	20	2C	1000					3000
13.TERRAIN	414845.00N/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:



MISSED APPROACH : LNAV

FROM

RW20

TO

AWNUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1980					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
12.AAO	414850.00N/0973333.00W		1950	50	20	2C	1000					3000
13.TERRAIN	414845.00N/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:

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											
14.TREE (31-041773)	415727.39N/0972604.68W	1.31	507	1744	20	3	1A	300		SI	2080
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

RW20

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (31-001197)	421415.00N/0971642.00W	020	16.2	2799	50	20	2C	1000		XP101	3900

MSA REMARKS:
RETAIN PREVIOUS MSA.

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

ASSUMED VEGETATION HEIGHT 100 FT PER FPT.

VISIBILITIES RESTRICTED TO 1 SM PER ADO.



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 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> 1532.3	<u>TCH</u> 39.7	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 39.7
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	297
ON CENTERLINE	☒	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -25C	<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 (2014-2018).
CRITICAL LOW TEMPERATURE BASED ON EFFECTIVE GPA.
DESCENT RATE (FPM): STANDARD TEMP 976 HIGH TEMP 1287.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, AND LNAV		
34:1			
1587 TREE (31-042267) 415947.80N/0972547.82W (10.24)		1578 TREE (31-024659) 415947.59N/0972546.25W (0.67)	

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.

CONTINGENCY ALTIMETER NOTE: USE WAYNE ALTIMETER SETTING: INCREASE LPV DA TO 1874 FEET AND LNAV/VNAV DA TO 1878 FEET; INCREASE ALL MDAS 80 FEET AND CAT C/D VISIBILITIES 1/4 SM.

CONTINGENCY NOTE: BARO-VNAV AND VDP NA WHEN USING WAYNE ALTIMETER SETTING.

20:1 PENETRATION CIRCLING RWY 32: LIGHTING (31-041974) 415846.63N/0972548.21W (0.5) ~ FIXED BY FUNCTION.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> NORFOLK RGNL/KARL STEFAN MEMORIAL FLD	<u>AIRPORT ID</u> KOFK	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 20	<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	3.23
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	199.44
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1600
DISTANCE FROM	THLD	TO 1500FT POINT	5.14
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.57
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	199.44
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1600

THRESHOLD
COORDINATES
(IF STR-IN)

415930.66N/0972550.81W

ARP COORDINATES

415907.66N/0972606.41W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 14 DISTANCE 0.53 NM

FAF
COORDINATES

420455.59N/0972317.12W

FIX NAME
COORDINATES

REMARKS

THLD DISPLACED 297FT, ACTUAL COORDINATES: 415933.42N/0972549.50W.

QUALITY
18
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

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FACILITY
RNAV

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
WARDELL HENNING (JAY BAGGETT)	AJV-A432	01/02/2020	AERONAUTICAL INFORMATION SPECIALIST