

**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SUPERSEDED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		10 SEPTEMBER 2020	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

