

**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><b>AIRPORT ID</b></u> KFKS	<u><b>PROCEDURE NAME</b></u> RNAV (GPS) RWY 33	<u><b>ORIGINAL/AMENDMENT</b></u> 1C	<u><b>CITY</b></u> FRANKFORT	<u><b>STATE</b></u> MI		
<u><b>AIRPORT ELEVATION</b></u> 633	<u><b>TDZE</b></u> 624	<u><b>SUPERSEDED</b></u> RNAV (GPS) RWY 33	<u><b>ORIGINAL/AMENDMENT</b></u> 1B	<u><b>DATED</b></u> 12/30/2021	<u><b>MAG VAR</b></u> 4W	<u><b>EPOCH YEAR</b></u> 1985
<u><b>FACILITY</b></u> RNAV	<u><b>COORDINATES OF FACILITIES</b></u>	<u><b>ACTUAL EFFECTIVE DATE</b></u> 11 AUGUST 2022	<u><b>REQUIRED EFFECTIVE DATE</b></u> ROUTINE	<u><b>CANCEL/SUSPEND</b></u>		

**TAA**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>ALTITUDE</b>
1. 248/30 CW 068/30	NOPT	OYVUK	IF/IAF	3600
2. 068/30 CW 158/30		UYIPO	IAF	3600
3. 158/30 CW 248/30		YULYU	IAF	3600

**TERMINAL ROUTES**

<b>FROM</b>	<b>FIX TYPE</b>	<b>TO</b>	<b>FIX TYPE</b>	<b>LEG TYPE</b>	<b>FO/FB</b>	<b>RNP</b>	<b>COURSE</b>	<b>DISTANCE</b>	<b>ALTITUDE</b>
YULYU	IAF	OYVUK	NOPT	TF	FB	1.00	248.14	5.00	3600
UYIPO	IAF	OYVUK	NOPT	TF	FB	1.00	068.00	5.00	3600
OYVUK	IF/IAF	WECQO		TF	FB	1.00	338.07	6.50	2600
WECQO	FAF	JEQMU	MAP	TF	FO	0.30	338.06	5.50	
JEQMU	MAP	1033 MSL		CA			338.06		
1033 MSL		OYVUK		DF	FO	1.00			3600

**MISSED APPROACH**

**MAP:**

LNAV: JEQMU

**MISSED APPROACH INSTRUCTIONS:**

CLIMBING LEFT TURN TO 3600 DIRECT OYVUK AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

QUALITY  
10  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S OYVUK, RT, 338.07 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 338.06

FAF: WECQO

DIST FAF TO MAP: 5.50

DIST FAF TO THLD: 5.99

4. MIN ALT: OYVUK 3600, WECQO 2600

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

GS ANT:

6. MIN GP INCPT:

GP ALT AT FAF :

OM:

MM:

IM:

7. GP ANGLE:

34:1: IS NOT CLEAR

20:1: IS NOT CLEAR

TCH:

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.  
CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

FAS OBST: 1100 AAO 443429N/0860844W.  
1230 AAO 443120N/0860921W.  
FAC CROSSES RWY C/L EXTENDED 3067 FT FROM THLD.  
CHART CIRCLING ICON.  
WECQO TO RW33: 3.09/35.  
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.67 DEGREES.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT B 900-2, CAT C 900-2 3/4, 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
LNAV MDA	1360	1	736	1360	1	736	1360	2	736		NA				
CIRCLING	1400	1	767	1520	1 1/4	887	1520	2 3/4	887		NA				



**CHANGES - REASONS**

1. INCORPORATED CHANGES FROM P-NOTAM AMDT 1B.
2. TAA: UPDATED TAA STRAIGHT-IN, LEFT BASE AND RIGHT BASE ALTITUDES FROM 3500 TO 3600 - UPDATED ROC ROUNDING OF CURRENT STRAIGHT-IN CONTROLLING OBST.
3. TERMINAL ROUTES: UPDATED IAF SEGMENTS UYIPO-OYVUK AND YULYU-OYVUK ALTITUDE FROM 3500 TO 3600 - IF/IAF ALT RAISED TO SUPPORT TAA STRAIGHT-IN ALTITUDE CHANGE.
4. TERMINAL ROUTES: ADDED DOCUMENTED CA SEGMENT TO 1033 - REQUIRED IAW 8260.58B 3-5-2.
5. TERMINAL ROUTES: UPDATE MISSED APPROACH TERMINATION ALTITUDE FROM 3500 TO 3600 - IF/IAF ALTITUDE CHANGE AT OYVUK.
6. PROFILE LINE 2: UPDATED HOLDING ALT FROM 3500 TO 3600 AND ADDED MAX HOLDING 6000 - IAF SEGMENT ALTITUDES INCREASED.
7. PROFILE LINE 3: UPDATED DIST FAF TO THLD: FROM 5.98 TO 5.99 - UPDATED EVALUATION.
8. NOTES: DELETED CHART NOTE: DME/DME RNP-0.3 AND ADDED PBN REQUIREMENTS NOTE: RNP APCH-GPS - IAW 8260.19I 8-6-8 B.
9. NOTES: DELETED CHART NOTES: "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANISTEE ALTIMETER SETTING; INCREASE ALL MDA 60 FEET, AND INCREASE CIRCLING CAT A VISIBILITY 1/4 SM" - MOVED UPDATED NOTES TO BACK OF -9 PER FPT REQUEST; PRIMARY LOCAL ALTIMETER SOURCE ON WMSCR.
10. ADDITIONAL FLIGHT DATA: UPDATED FAS OBST FROM "CHART FAS OBST: 1163 TOWER 443641N/0860938W" TO "FAS OBST: 1100 AAO 443429N/0860844W"; ADDED "1230 AAO 443120N/0860921W" - UPDATED EVALUATION/MAP STUDY.
11. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON" - NEW CIRCLING RADII APPLIED.
12. ADDITIONAL FLIGHT DATA: ADDED "CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.67 DEGREES" - DOCUMENTED IAW 8260.19I 8-6-10 G(1).
13. ADDITIONAL FLIGHT DATA: UPDATED FAC CROSSES RWY C/L EXTENDED FROM THLD DISTANCE FROM 3000 TO 3067 - UPDATED EVALUATION.
14. MINIMUMS: UPDATED LNAV MDA/HAT FROM "1320/714" TO "1360/736" - UPDATED EVALUATION/MAP STUDY.

**COORDINATED WITH:**

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

**FLIGHT CHECKED BY**

SHAWN D MAXWELL

*Digitally signed by***JASON KRETSCHMER**

Jun 08, 2022

**OFFICE**

FPO

**DATE**

06/01/2022

**DEVELOPED BY**

JASON KRETSCHMER (PATRICK COMBS)

*Digitally signed by***JASON KRETSCHMER**

May 10, 2022

**OFFICE**

AJV-A421

**DATE**

03/21/2022

**APPROVED BY**

MARLON ROBINSON

*Digitally signed by***JASON KRETSCHMER**

May 10, 2022

**OFFICE**

AJV-A420

**DATE****TITLE**  
MANAGER