

**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 ID</u> KFKS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> FRANKFORT	<u>STATE</u> MI		
<u>AIRPORT ELEVATION</u> 633	<u>TDZE</u> 623	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 04/30/2015	<u>MAG VAR</u> 4W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 7 OCTOBER 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 038/30 CW 219/30	NOPT	WIMQE	IF/IAF	2700
2. 219/30 CW 308/30		YUQZU	IAF	2700
3. 308/30 CW 038/30		VULHU	IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YUQZU	IAF	WIMQE	NOPT	TF	FB	1.00	218.51	5.00	2700
VULHU	IAF	WIMQE	NOPT	TF	FB	1.00	038.41	5.00	2700
WIMQE	IF/IAF	ZIVKU		TF	FB	1.00	128.46	6.00	2400
ZIVKU	FAF	HUSDI	MAP	TF	FO	0.30	128.47	5.00	
HUSDI	MAP	1033 MSL		CA			128.47		
1033 MSL		WIMQE		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LNAV: HUSDI

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 2700 DIRECT WIMQE AND HOLD

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. HOLD NW WIMQE, RT, 128.46 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.
- 3. **FAC:** 128.47 **FAF:** ZIVKU **DIST FAF TO MAP:** 5.00 **DIST FAF TO THLD:** 5.39
- 4. **MIN ALT:** WIMQE 2700, ZIVKU 2400
- 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 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANISTEE ALTIMETER SETTING AND INCREASE ALL MDA'S 60 FEET AND CIRCLING CAT A VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.80 DEGREES.
 CHART CIRCLING ICON
 CHART FAS OBST: 1049 TREES 443845N/0861246W.
 FAC CROSSES RWY C/L EXTENDED 2353 FT FROM THLD.
 CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.

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		
	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	1300	1	677	1300	1	677	1300	1 7/8	677		NA				
CIRCLING	1400	1	767	1520	1 1/4	887	1520	2 3/4	887		NA				



CHANGES - REASONS

1. LNAV MDA/HAT INCREASED FROM 1220/597 TO 1300/677, ALL CATS, CAT C VISIBILITY INCREASED FROM 1 1/2 SM TO 1 7/8 SM - NEW CONTROLLING OBSTACLE.
2. FAS OBST CHANGED FROM 1010 TOWER TO 1049 TREES - OBSTACLE EVAL.
3. CAT A CIRCLING MDA/HAA INCREASED FROM 1320/687 TO 1400/767 - NEW CONTROLLING OBSTACLE.
4. CAT B CIRCLING MDA/HAA INCREASED FROM 1320/687 TO 1520/887, VISIBILITY INCREASED FROM 1 SM TO 1 1/4 SM - NEW CONTROLLING OBSTACLE.
5. DESCENT GRADIENT/TCH DELETED, ADDED TO ADDITIONAL FLIGHT DATA: CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES - DIRECTED BY FLIGHT CHECK.
6. CHANGED HELICOPTER VISIBILITY NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED TO RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - CRITERIA CHANGE.
7. CHANGE BACKUP ALTIMETER SETTING NOTE FROM IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANISTEE ALTIMETER SETTING AND INCREASE ALL MDA'S 60 FEET TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MANISTEE ALTIMETER SETTING AND INCREASE ALL MDA'S 60 FEET AND CIRCLING CAT A VISIBILITY 1/4 SM - CRITERIA CHANGE/CAT A CIRCLING MDA INCREASED.
8. DELETED NOTE DME/DME RNP -0.3 NA, ADD PBN REQUIREMENTS NOTE RNP APCH - GPS - CRITERIA CHANGE.
9. ALTERNATE MINIMUMS CHANGED FROM STANDARD - CAT C 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE TO STANDARD - CAT B 900-2, CAT C 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE - CAT B CIRCLING MINIMUMS INCREASED.
10. TERMINAL ROUTES: ADDED CA LEG TO MISSED APPROACH - CRITERIA CHANGE.
11. LINE 7: ADDED 20:1 IS NOT CLEAR - CRITERIA CHANGE.
12. ADDED TO ADDITIONAL FLIGHT DATA: CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.80 DEGREES - CRITERIA REQUIREMENT.
13. LINE 2 ADDED MAX ALTITUDE 6000 - CRITERIA CHANGE.
14. LINE 3: DIST FAF TO THLD CHANGED FROM 5.37 TO 5.39 - CHART CORRECTION.

COORDINATED WITH:

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

FLIGHT CHECKED BY

PATRICK MURRAY

Digitally signed by
LONNIE EVERHART

Aug 17, 2021

OFFICE

FICO

DATE

08/13/2021

DEVELOPED BY

RICHARD K. CLARK JR.

Digitally signed by
RICHARD K CLARK-JR

Jun 07, 2021

OFFICE

AJV-A432

DATE

05/24/2021

APPROVED BY

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Aug 17, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

