

**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> KFEP	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 1B	<u>CITY</u> FREEPORT	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 859	<u>TDZE</u> 847	<u>SUPERSEDED</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 0E	<u>EPOCH YEAR</u> 1995
<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>		

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MADDY		ADOSE		TF	FO	1.00	113.69	20.09	2600
JVL VOR/DME	IAF	ADOSE	NOPT	TF	FB	1.00	224.29	16.59	2600
ADOSE	IF/IAF	LUNDN		TF	FB	1.00	234.36	6.10	2600
LUNDN	FAF	ZOSTA/2.20 NM TO RW24		TF	FB	0.30	234.29	3.10	
ZOSTA/2.20 NM TO RW24		RW24	MAP	TF	FO	0.30	234.29	2.20	
RW24	MAP	1097 MSL		CA			234.29		
1097 MSL		HANKS		DF	FO	1.00			2600

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW24

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2600 DIRECT HANKS AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



**PROFILE:**

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

2. HOLD NE ADOSE, RT, 234.36 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. **FAC:** 234.29    **FAF:** LUNDN    **DIST FAF TO MAP:** 5.30    **DIST FAF TO THLD:** 5.30

4. **MIN ALT:**    ADOSE 2600, LUNDN 2600, ZOSTA/2.20 NM TO RW24 1580

5. **DIST TO THLD FROM OM:**                            **MM:**    **IM:**    **150 HAT:**    **250 HAT:** 0.66    **GS ANT:**

6. **MIN GP INCPT:** 2600    **GP ALT AT FAF :** LUNDN 2600    **OM:**    **MM:**    **IM:**

7. **GP ANGLE:** 3.00    **34:1:** IS CLEAR    **20:1:** IS CLEAR    **TCH:** 44.9

8. **MSA FROM:**    RW24 2600

**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS

**NOTES:**

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO/ROCKFORD ALTIMETER SETTING AND INCREASE LPV AND LNAV/VNAV DA TO 1164 FEET; INCREASE ALL MDAS 80 FEET AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 SM.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING CHICAGO/ROCKFORD ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JVL VOR/DME ON V216 NORTHEAST BOUND.

CHART NOTE: CIRCLING NA TO RWYS 13, 18, 31, 36.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 3/4 SM.

CHART NOTE: FOR INOPERATIVE ALS, WHEN USING CHICAGO/ROCKFORD ALTIMETER SETTING, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV C/D VISIBILITY TO 1 1/8 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, LT, 054.07 INBOUND.

CHART FAS OBST: 913 TOP PWR POLE (KFEPT018) 421537N/0893309W.

CHART 990 TOWER (14-3131) 421603N/0893124W.

CHART VDP AT 0.92 NM TO RW24.

WAAS CHANNEL # 78403

REFERENCE PATH ID: W24A

LTP HAE: 223.1 M



**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - 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	1097	1/2	250	1097	1/2	250	1097	1/2	250	1097	1/2	250				
LNAV/VNAV DA	1097	1/2	250	1097	1/2	250	1097	1/2	250	1097	1/2	250				
LNAV MDA	1180	1/2	333	1180	1/2	333	1180	1/2	333	1180	1/2	333				
CIRCLING	1300	1	441	1340	1	481	1380	1 1/2	521	1440	2	581				

**CHANGES - REASONS**

- DELETED CHART NOTE: DME/DME RNP-0.3 NA AND REPLACED WITH PBN REQUIREMENTS NOTE: RNP APCH - GPS. - IAW 8260.19I, PARA 8-6-8 B(1).
- CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C (4°F) OR ABOVE 47°C (116°F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C" - FAHRENHEIT NO LONGER REQUIRED.
- REMOVED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RFD VOR/DME AIRWAY RADIALS 278 CW 327 - RFD VOR/DME BEING DECOMMISSIONED.
- REMOVED IAF FROM ROCKFORD VOR/DME TO ADOSE - RFD VOR/DME BEING DECOMMISSIONED.
- CHANGED "CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVAL ON JVL VOR/DME VIA V216 NORTHEAST BOUND" TO "PROCEDURE NA FOR ARRIVAL AT JVL VOR/DME ON V216 NORTHEAST BOUND - IAW 8260.19I.
- REMOVED NOTE "LNAV ONLY" - IAW 8260.19I 8-6-7.D.
- CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROCKFORD ALTIMETER SETTING: INCREASE LPV AND LNAV/VNAV DA TO 1164 FT AND ALL VISIBILITIES 1/8 MILE; INCREASE ALL MDA 80FT AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHICAGO/ROCKFORD ALTIMETER SETTING AND INCREASE LPV AND LNAV/VNAV DA TO 1164 FEET; INCREASE ALL MDAS 80 FEET AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 SM - IAW 8260.19I 8-6-11 AND 8260.3D TABLE 3-3-1.
- ADDED CHART NOTE: CIRCLING NA TO RWYS 13, 18, 31, 36 - IDENTIFIED AS TURF RUNWAYS.
- CHANGED CHART NOTE FROM "BARO-VNAV AND VDP NA WHEN USING ROCKFORD ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING CHICAGO/ROCKFORD ALTIMETER SETTING" - IAW 8260.19I.
- CHANGED CHART NOTE FROM "FOR INOPERATIVE MALSR, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY TO 7/8 MILE" TO "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 3/4 SM - IAW 8260.19I PARA 8-6-11 AND 8260.3D TABLE 3-3-1.
- CHANGED CHART NOTE FROM "FOR INOPERATIVE MALSR WHEN USING ROCKFORD ALTIMETER SETTING, INCREASE LPV ALL CATS AND LNAV C/D VISIBILITY TO 1 1/8 MILE" TO "FOR INOPERATIVE ALS WHEN USING CHICAGO/ROCKFORD ALTIMETER SETTING, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY TO 7/8 SM AND LNAV C/D VISIBILITY TO 1 1/8 SM" - IAW 8260.19I PARA 8-6-11 AND 8260.3D TABLE 3-3-1.
- INCORPORATED P NOTAM 5/2787 AND ORIG-A CHANGES INTO AMENDMENT - IAW 8260.19I.
- ADDED CA LEG TO TERMINAL ROUTES - IAW 8260.58A 3-5-2.
- CHANGED MADDY TO ADOSE FROM A FB TO A FO - TURN EXCEEDS 90 DEGREES.
- ADDED 20:1 IS CLEAR TO LINE 7 PROFILE - 8260.19H 8-6-7G(3).



**COORDINATED WITH:**

**A4A**  **ALPA**  **AOPA**  **APA**  **HAI**  **NBAA**  **OTHER:** ZAU, RFD APP CON, AMGR, IL ST AERO

**FLIGHT CHECKED BY**

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020. SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

**OFFICE**

**DATE**

*Digitally signed by*  
**LONNIE EVERHART**

Jun 17, 2021

**OFFICE**

AJV-A432

**DATE**

05/21/2021

**DEVELOPED BY**

DAVID TEFFETELLER (LORRI DOWNEY)

*Digitally signed by*  
**LONNIE EVERHART**

Jun 17, 2021

**OFFICE**

AJV-A430

**DATE**

**TITLE**  
MANAGER

**APPROVED BY**

LONNIE EVERHART

*Digitally signed by*  
**LONNIE EVERHART**

Jun 17, 2021



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFEP
RUNWAY	RW24
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	421455.5900N
LTP/FTP LONGITUDE	0893425.0300W
LTP/FTP ELLIPSOIDAL HEIGHT	+02231
FPAP LATITUDE	421423.7900N
FPAP LONGITUDE	0893524.3900W
THRESHOLD CROSSING HEIGHT (TCH)	00044.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	104.00
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	409E626E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02562
FPAP ORTHOMETRIC HEIGHT	+02562

