

**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> KELM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> ELMIRA/CORNING	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 955	<u>TDZE</u> 944	<u>SUPERSEDED</u> RNAV (GPS) RWY 6	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 08/21/2014	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 31 DECEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> 12/31/2020	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 332/30 CW 152/30	NOPT	332/10 CW 152/10		4300
2. 332/10 CW 152/10		UNOLY	IF/IAF	4000
3. 152/30 CW 332/30		152/10 CW 332/10		4200
4. 152/10 CW 332/10		UNOLY	IAF	4000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
UNOLY	IF/IAF	JOKEN		TF	FB	1.00	062.23	7.00	3200
JOKEN	FAF	CONAC/4.18 NM TO RW06		TF	FB	0.30	062.31	2.75	
CONAC/4.18 NM TO RW06		RW06	MAP	TF	FO	0.30	062.31	4.18	
RW06	MAP	1144 MSL		CA			062.31		
1144 MSL		IREKE		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW06

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT IREKE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
22
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD SW UNOLY, RT, 062.23 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 062.31FAF: JOKENDIST FAF TO MAP: 6.93DIST FAF TO THLD: 6.93

4. MIN ALT: UNOLY 4000, JOKEN 3200, CONAC/4.18 NM TO RW06 2320*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.48GS ANT:

6. MIN GP INCPT: 3200GP ALT AT FAF : JOKEN 3200OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 51.8

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV ALL CATS.
CHART NOTE: CIRCLING RWY 10 NA AT NIGHT.
CHART NOTE: CIRCLING NA TO RWYS 5 AND 23.
CHART NOTE: CIRCLING NA FOR CAT D S OF RWYS 10 AND 28.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C OR ABOVE 54C.
CHART NOTE: # RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 242.56 INBOUND.
CHART FAS OBST: 1875 TREE 420634N/0765643W.
CHART VDP AT 2.96 NM TO RW06*
*LNAV ONLY.
WAAS CHANNEL # 42827
REFERENCE PATH ID: W06A
CHART CIRCLING ICON.
LTP HAE: 253.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B, C 1200-5, CAT D 1400-5, 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#	1144	2400	200	1144	2400	200	1144	2400	200	1144	2400	200			
LNAV/VNAV DA	2138	5	1194	2138	5	1194	2138	5	1194	2138	5	1194			
LNAV MDA	1940	4000	996	1940	5500	996	1940	2 1/2	996	1940	2 1/2	996			
CIRCLING	2020	1 1/4	1065	2080	1 1/2	1125	2100	3	1145	2340	3	1385			

QUALITY
22
CHECKED

CHANGES - REASONS

1. FAF JOKEN FIX COORDINATES CHANGED FROM 420451.18N/0770116.39W TO 420451.19N/0770116.39W - FIX MOVED 1.01 FT NORTH TO ALIGN STRAIGHT IN AT 3 DEGREES, 3200 FEET.
2. CHANGED CONAC/4.18 NM TO RW06 TO RW06 COURSE AND RW06 TO 1144 MSL COURSE FROM 062.34 TO 062.31 - USING SEGMENT START POINT.
3. CHANGED LPV ALL CATS VISIBILITY FROM 1/2 SM TO RVR 2400 - AIRPORT ADDED RVR FOR RWY 6.
4. LOWERED LNAV/VNAV MDA/HAT FROM 2234/1290 TO 2138/1194 AND RAISED VISIBILITY FROM 3 SM TO 5 SM - NEW EVALUATION, MAP/DA TO LTP DISTANCE EXCEEDS 3 SM, THEREFORE LIGHT CREDIT WAS NOT APPLIED.
5. LOWERED LNAV MDA/HAT FROM 2040/1096 TO 1940/996 AND CHANGED CAT A VISIBILITY FROM 3/4 SM TO RVR 4000, CAT B VISIBILITY FROM 1 SM TO RVR 5500 - NEW EVALUATION, AIRPORT ADDED RVR FOR RWY 6.
6. CHANGED NOTE "FOR INOPERATIVE MALSR, INCREASE LPV ALL CATS VISIBILITY TO 7/8 SM" TO "INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV ALL CATS" - NEW EVALUATION.
7. ADDED "CHART CIRCLING ICON" TO ADDITIONAL FLIGHT DATA; DECREASED CAT A CIRCLING MDA/HAA FROM 2100/1145 TO 2020/1065, CAT B FROM 2100/1145 TO 2080/1125, CAT C FROM 2120/1165 TO 2100/1145; INCREASED CAT D FROM 2160/1205 TO 2340/1385 - NEW EVALUATION, IAW 8260.3D NEW CIRCLING CRITERIA APPLIED.
8. ADDED CAT D CIRCLING RESTRICTION - PROVIDES OBSTACLE AVOIDANCE TO RESULT IN THE LOWEST POSSIBLE MDA/HAA.
9. ADDED MAX HOLD-IN-LIEU ALTITUDE OF 6000 TO PROFILE LINE 2 - IAW 8260.19H PARA 8-6-7B (2).
10. CHANGED DISTANCE TO THLD FROM 200 HATH: 0.47 NM TO 200 HAT: 0.48 NM ON 8260-3 LINE 5 - NEW EVALUATION.
11. ADDED "20:1 IS CLEAR" TO 8260.3 LINE 7 - IAW 8260.19H, PARA 8-6-7G(3).
12. REMOVED DME/DME RNP-0.3 NA NOTE, ADDED RNP APCH TO EQUIPMENT REQUIREMENTS SECTION - RNAV APPROACH REQUIRES ANNOTATION OF PBN NAVSPEC.
13. DELETED 7:1 OBSTACLE 1859 AAO - NEW EVALUATION, WAIVED AAO/VEGETATION IN FINAL OUTSIDE OF 20,000 FEET FROM THE RUNWAY END.
14. CHANGED FAS OBSTACLE: 1959 AAO TO 1875 TREE 420634N/0765643W - NEW EVALUATION, WAIVED AAO/VEGETATION IN FINAL OUTSIDE OF 20,000 FEET FROM THE RUNWAY END.
15. ADDED CHART VDP AT 2.96 NM TO RW06* - PROCEDURE USES ILS DESIGN TCH, LNAV MDA CHANGED FROM 2040 TO 1940.
16. CHANGED CHART NOTE: NIGHT LANDING RWY 10 NA TO CIRCLING RWY 10 NA AT NIGHT - IAW 8260.19H, PARA 8-6-11(O).
17. ADDED CHART NOTE: CIRCLING NA TO RWYS 5 AND 23. - RUNWAYS 5 AND 23 IDENTIFIED AS TURF RUNWAYS.
18. CHANGED ALTERNATE MINIMUMS FROM "CAT A, B 1200-2, CAT C 1200-3, D 1300-3" TO "CAT A, B, C 1200-5, CAT D 1400-5" - REVISED CIRCLING HAA AND LNAV/VNAV VISIBILITY.
19. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINIMUMS - DUE TO IMPLEMENTATION OF 8260.19H.1 ATTACHMENT 4.
20. REMOVED ALL NOTES REFERENCING THE BACK-UP ALTIMETER SETTING - LOCAL WEATHER TRANSMITTED ON WMSCR AND DEEMED RELIABLE, NOTES MOVED TO FORM 8260-9 FOR CONTINGENCY USE.
21. CHANGED CHART NOTE: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV BELOW -16C (4F) OR ABOVE 37C (98F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV BELOW -21C OR ABOVE 54C" - IAW 8260.19H, PARA 8-6-9R(4)S AND 5 YEAR TEMPERATURE HISTORY.
22. CHANGED CRC REMAINDER FROM 070DA186 TO 4BBFEA39 - FPAP LOCATION CHANGED.
23. FAS DATA: FPAP COORDINATES CHANGED FROM 421013.6100N/0765233.6100W TO 421013.6110N/0765233.6030W - NEW EVALUATION.
24. DELETED LNAV/VNAV ONLY: FLY VISUAL TO THE AIRPORT, 062 - 3.90 NM - VISIBILITY RAISED TO 5, NOTE NO LONGER REQUIRED.
25. CHANGED MISSED APPROACH INSTRUCTION FROM "CLIMB TO 4200 DIRECT IREKE AND HOLD" TO "CLIMB TO 4000 DIRECT IREKE AND HOLD" - ATC REQUEST.
26. ADDED CHART NOTE: # RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA - AIRPORT ADDED RVR FOR RWY 6 AND LPV HAS 200 HAT.
27. DELETED PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - VGSI TCH VERIFIED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HA1** ☐ **NBA4** ☒ **OTHER:** ELM APP CON, ZNY ARTCC, ZOB ARTCC, ELM ATCT, APT MGR

FLIGHT CHECKED BY

Pending

Digitally signed by
DAVID TEFFETELLER
Oct 13, 2020

OFFICE
FICO

DATE

DEVELOPED BY

DIANE S LAIR

Digitally signed by
DIANE S LAIR
Sep 11, 2020

OFFICE
AJV-A433

DATE
03/08/2020

APPROVED BY

GEORGE DAVIS

Digitally signed by
DAVID TEFFETELLER
Oct 13, 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	KELM
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	420916.7945N
LTP/FTP LONGITUDE	0765405.9160W
LTP/FTP ELLIPSOIDAL HEIGHT	+02535
FPAP LATITUDE	421013.6110N
FPAP LONGITUDE	0765233.6030W
THRESHOLD CROSSING HEIGHT (TCH)	00051.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0496
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	4BBFEA39

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02864
FPAP ORTHOMETRIC HEIGHT	+02864

