

**FEDERAL AVIATION ADMINISTRATION**  
**FLIGHT STANDARDS SERVICE**  
**ILS STANDARD INSTRUMENT APPROACH PROCEDURE**  
**TITLE 14 CFR PART 97.29**

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> ALPENA COUNTY RGNL	<u>AIRPORT ID</u> KAPN	<u>PROCEDURE NAME</u> ILS OR LOC RWY 1	<u>ORIGINAL/AMENDMENT</u> 9B	<u>CITY</u> ALPENA	<u>STATE</u> MI	
<u>AIRPORT ELEVATION</u> 690	<u>TDZE</u> 685	<u>SUPERSEDED</u> ILS OR LOC RWY 1	<u>ORIGINAL/AMENDMENT</u> 9A	<u>DATED</u> 04/02/2015	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-APN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 20 JUNE 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**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>
APN VORTAC		FELPS LOM/APN 7.32 DME	FAF/IAF				188.28	7.32	2800
AILES/APN 17.00 DME	IAF	YARLU/APN 13.32 DME					090.00 & 006.80	3.93 & 2.72 (I-APN)	2800
YARLU/APN 13.32 DME	IF	FELPS LOM/APN 7.32 DME					006.80	6.00 (I-APN)	2800

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: 6.25 NM AFTER FELPS LOM/APN 7.32 DME OR AT APN VORTAC/1.09 DME FIX

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1100 THEN CLIMBING LEFT TURN TO 2800 DIRECT AP LOM AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 2800 DIRECT APN VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 2800.

**PROFILE:**

1. PT L    **SIDE OF COURSE** 186.80    **OUTBOUND** 2800    **FT WITHIN** 10    **MILES OF** FELPS LOM (IAF)
- 2.
3. **FAC:** 006.80    **FAF:** FELPS LOM/APN 7.32 DME    **DIST FAF TO MAP:** 6.25    **DIST FAF TO THLD:** 6.25
4. **MIN ALT:** FELPS LOM/APN 7.32 DME 2800, HOMSU/2.78 DME 1260\*
5. **DIST TO THLD FROM OM:** 6.25    **MM:**    **IM:**    **150 HAT:**    **GS ANT:** 960
6. **MIN GS INCPT:** 2800    **GS ALT AT FAF :**    **OM:** 2761    **MM:**    **IM:**
7. **GP ANGLE:** 3.00    **34:1:**    **20:1:**    **TCH:** 52.0
8. **MSA FROM:** APN VORTAC 270-360 3500, 360-270 2700

**EQUIPMENT REQUIREMENTS NOTES:**

ADF REQUIRED.



NOTES:

\*LOC ONLY  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 1 CAT C/D VISIBILITY TO 1 5/8 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: APN VORTAC  
CHART FAS OBST: 799 TREE 450304N/0833358W.  
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N APN VORTAC, RT, 175.00 INBOUND.  
HOLD S, RT, 007.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - NA WHEN CONTROL TOWER CLOSED.

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
S-ILS 01	885	1/2	200	885	1/2	200	885	1/2	200	885	1/2	200			
S-LOC 01	1260	1/2	575	1260	1/2	575	1260	1 1/4	575	1260	1 1/4	575			
CIRCLING	1260	1	570	1260	1	570	1260	1 5/8	570	1260	2	570			
HOMSU FIX MINIMUMS															
S-LOC 01	1140	1/2	455	1140	1/2	455	1140	1/2	455	1140	1/2	455			
CIRCLING	1140	1	450	1140	1	450	1140	1 1/2	450	1260	2	570			

CHANGES - REASONS

1. ADDED EQUIPMENT REQUIREMENTS NOTE: ADF REQUIRED; DELETED NOTE: ADF REQUIRED.
2. CHANGED FROM: "CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 1 CAT C/D VISIBILITY TO 1 5/8 MILE" TO: "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 1 CAT C/D VISIBILITY TO 1 5/8 SM" - USE OF "ALS" VICE "MALSR"; "SM" VICE "MILE" IAW 8260.19H PARA8-6-11O (3)(E).
3. REMOVED DR SEGMENT FIX IYIJY FROM PROCEDURE - NO LONGER REQUIRED FOR ARINC CODING.
4. ADDED ALTERNATE MINIMUMS - ILS CAT 1: INTERNAL AND REMOTE MONITORING; NA WHEN TOWER CLOSED.
- INCORPORATED P-NOTAM 9A:  
S-ILS 1 DA 885.  
S-LOC 1 HAT 575 ALL CATS.  
HOMSU FIX MINIMUMS: S-LOC 1 HAT 455 ALL CATS.  
CHART TDZE 685 DELETE THRE 683 - CHANGED THRE TO TDZE.



COORDINATED WITH:

A4A ☒    ALPA ☒    AOPA ☒    APA ☐    HAI ☐    NBAA ☒    OTHER: ZMP, APN ATCT, AMGR, ATA

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:  
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

MIKE MELSEN

*Digitally signed by*

**MIKE MELSEN**

Feb 27, 2019

APPROVED BY

PATRICK MULQUEEN

*Digitally signed by*

**WARDELL HENNING**

Mar 04, 2019

OFFICE

*Digitally signed by*

DATE

**WARDELL HENNING**

Mar 04, 2019

OFFICE

AJV-A432

DATE

02/06/2019

OFFICE

AJV-A43

DATE

TITLE

MANAGER