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.

AIRPORT ID
KAOO
READ BROCEDURE NAME
ILS OR LOC RWY 21
READ BROCEDURE NAME
ORIGINAL/AMENDMENT
9
ALTOONA
PA

 AIRPORT ELEVATION
 TDZE
 SUPERSEDED
 ORIGINAL/AMENDMENT
 DATED
 MAG VAR
 EPOCH YEAR

 1503
 1486
 ILS OR LOC RWY 21
 8C
 12/07/2017
 10W
 2005

FACILITY COORDINATES OF FACILITIES ACTUAL EFFECTIVE DATE REQUIRED EFFECTIVE DATE CANCEL/SUSPEND

I-AOO 30 NOVEMBER 2023 11/30/2023

TERMINAL ROUTES

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	<u>COURSE</u>	DISTANCE	ALTITUDE
HUDON	IAF	KEWER INT	NOPT				254.00	10.22 (JST R-074)	4300
KEWER INT	IF/IAF	ALTOO OM					205.98	6.05 (I-AOO)	3500

MISSED APPROACH

MAP:

ILS: DA

LOC: 6.04 NM AFTER ALTOO OM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 295 AND ON JST R-096 TO ZOTBI/JST 11.70 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

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

2, HOLD NE KEWER, RT, 205.98 INBOUND, 4300 FT. IN LIEU OF PT (IAF), MAX 6000.

4. MIN ALT: KEWER INT 4300, ALTOO OM 3500

5. DIST TO THLD FROM OM: 6.04 MM: IM: 150 HAT: GS ANT: 998

6. MIN GS INCPT: 3500 **GS ALT AT PFAF**: ALTOO OM 3444 **OM**: 3444 **MM**: **IM**:

7. GS ANGLE: 3.00 **34:1**: **20:1**: TCH: 52.0

8. MSA FROM: ARP KAOO 4400

EQUIPMENT REQUIREMENTS NOTE:

DME REQUIRED.

AIRPORT IDPROCEDURE NAMEORIGINAL/AMENDMENTCITYSTATEKAOOILS OR LOC RWY 219ALTOONAPA

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 12 AND 30.

CHART NOTE: CIRCLING NA FOR CATS C, D NW OF RWYS 12 AND 21.

CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 21 VISIBILITY CATS C AND D TO 2 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON HOLD E, RT, 276.04 INBOUND.

FAS OBST: 1943 AAO 402315N/0781821W.

2205 AAO 402412N/0781803W.

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT C 1300-3, CAT D 1400-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A		В		С			D			E				
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA	DA/MDA	VIS	HAT/HAA									
S-ILS 21	1686	1/2	200	1686	1/2	200	1686	1/2	200	1686	1/2	200			
S-LOC 21	2240	1/2	754	2240	3/4	754	2240	1 3/4	754	2240	1 3/4	754			
CIRCLING	2240	1	737	2240	1 1/4	737	2800	3	1297	2840	3	1337			

CHANGES - REASONS

- 1. MISSED APPROACH INSTRUCTIONS: CHANGED FROM "CLIMB TO 2100, THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 295 AND JST R-096 TO ZOTBI INT/JST 11.70 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000." TO "CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 5000 ON HEADING 295 AND ON JST R-096 TO ZOTBI/JST 11.70 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000." ZOTBI NO LONGER AN INT.
- 2. REMOVED ALTERNATE MISSED APPROACH FPT REQUEST, REC VORMON
- 3. PROFILE LINE 6: CHANGED GS ALT AT PFAF: FROM "ALTOO OM 3473" TO "ALTOO OM 3444"; OM FROM "3478" TO "3444" NEW TARGETS EVALUATION.
- 4. NOTES: ADDED "DME REQUIRED" TO EQUIPMENT REQUIREMENTS NOTE REC VORMON
- 5. NOTES: CHANGED FROM "CHART NOTE: CIRCLING TO RWY 3, 12, 30 NA AT NIGHT." TO "CIRCLING NA TO RWYS 12 AND 30" STANDARDIZED CIRCLING RESTRICTIONS BETWEEN PROCEDURES AND RESTRICTIONS REMOVED FROM RWY 3.
- 6. CHART NOTE: CHANGED FROM "FOR INOPERATIVE ALS INCREASE S-LOC 21 VISIBILITY CATS C AND D TO 2 1/2 MILES." TO "CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 21 VISIBILITY CATS C AND D TO 2 SM." 8260.3E TABLE 3-3-1
- 7. ADDITIONAL FLIGHT DATA: CHANGED 7:1 FROM "2139 AAO 402439N/0781745W." TO "2205 AAO 402412N/0781803W." NEW TARGETS EVALUATION
- 8. ADDED "MAX 6000" TO PROFILE LINE 2 -- UPDATED 8260.19I, 8-6-7.B(2).
- 9. ADDITIONAL FLIGHT DATA CHANGED FROM "FAS OBST: 2199 AAO 402347N/0781817W." TO "FAS OBST: 1943 AAO 402315N/0781821W." 7:1 TAKEN RESULTING IN NEW CONTROLLER.
- 10. ADDITIONAL FLIGHT DATA: CHANGED FROM "HOLD W, RT, 096.04 INBOUND." TO "HOLD E, RT, 276.04 INBOUND." HOLDING ENTERED THE NO COURSE SIGNAL ZONE OF JST.

COORDINATED WITH: NBAA X A4A X ALPA X AOPA X APA X HAI 🗌 OTHER: ZOB, JOHNSTOWN APP CON, AMGR Digitally signed by **FLIGHT CHECKED BY OFFICE** DATE **ERIC N SUSKI PENDING** Sep 19, 2023 Digitally signed by **DEVELOPED BY OFFICE** DATE **ERIC N SUSKI** ERIC N SUSKI (COLE NESBITT) AJV-A431 07/03/2023 Sep 19, 2023 TITLE **APPROVED BY OFFICE DATE** Digitally signed by **ERIC N SUSKI** AJV-A430 MANAGER **ERIC N SUSKI**

ORIGINAL/AMENDMENT

<u>CITY</u>

ALTOONA

STATE PA

PROCEDURE NAME

ILS OR LOC RWY 21

Sep 19, 2023

AIRPORT ID

KAOO